STATE OF UTAH
DIVISION OF PARKS AND RECREATION

State of Utah-Department of Administrative Services

DIVISION OF FACILITIES CONSTRUCTION
AND MANAGEMENT

4110 State Office Building - Salt Lake City, Utah 84114 - 801-538-3018

GOBLIN VALLEY - VISITOR'S CENTER RESTROOM & SHOWER FACILITY

DFCM PROJECT # 04255510

December 29, 2005

G-001

SHEET 1 OF 36

STATE OF UTAH
DIVISION OF PARKS AND RECREATION
NEW VISITORS CENTER for GOBLIN VALLEY STATE PARK

GOBLIN VALLEY ROAD - WEST OF STATE ROUTE #24 - SOUTH OF SAN RAFAEL REEF
EMERY COUNTY
P.O. BOX #637
GREEN RIVER, UTAH 84525-0637
DFCM PROJECT NO. 04255510

STATE OF UTAH
DEPARTMENT OF ADMINISTRATIVE SERVICES
DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT

State of Utah—Department of Administrative Services
DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT
4110 State Office Building / Salt Lake City, Utah 84114 / 538-3018

DESIGN TEAM

OWNER

STATE OF UTAH
DEPARTMENT OF ADMINISTRATIVE SERVICES – DIVISION OF FACILITIES, CONSTRUCTION, AND MANAGEMENT
JEFF REDDOOR
4110 STATE OFFICE BUILDING
SALT LAKE CITY, UTAH 84114
PHONE: (801) 538–9620

DIVISION OF PARKS AND RECREATION
BILL MAUGHAN,
CONSTRUCTION OPERATIONS SPECIALIST
EUGENE SWALBERG, PARK MANAGER
1594 WEST NORTH TEMPLE, SUITE 116
SALT LAKE CITY, UTAH 84114–6001
PHONE: (801) 538–7350

ARCHITECT

DAVE ROBINSON ARCHITECTS
4525 SOUTH WASATCH BLVD.
SUITE #301
SALT LAKE CITY, UTAH 84124
PHONE: (801) 272–0242
FAX: (801) 272–0269

CIVIL ENGINEER
WELLINGTON & ASSOCIATES
50 WEST MAIN
WELLINGTON, UTAH 84542
PHONE: (435) 637–2394
FAX: (435) 637–2423

STRUCTURAL ENGINEER
BHB CONSULTING ENGINEERS
244 WEST 300 NORTH STE. 202
SALT LAKE CITY, UTAH 84103
PHONE: (801) 355–5656
FAX: (801) 355–5950

MECHANICAL ENGINEER
JARED THOMAS
1399 E. 7240 S.
SALT LAKE CITY, UTAH 84121
PHONE: (801) 947–7652

ELECTRICAL
FELLEX ENGINEERING
745 E. 12000 S.
SANDY, UT 84020
PHONE: (801) 523–5023
FAX: (801) 523–5054

DESIGN CRITERIA

DFCM DESIGN AND CODE CRITERIA

(Fee A/E:Attach and fill in applicable data for Contract Drawing submittal)

Applicable Codes:	Year		Year
International Building Code[a]	2003	Uniform Mechanical Code	N/A
		International Plumbing Code	2000
Dept of Justice ADA Accessibility Guidelines Title III	1992	Energy Code	N/A
		National Electrical Code	1999

A. Occupancy and Group: M Retail
Change in Use: Yes____ No X — Mixed Occupancy: Yes____ No____

B. Type of Construction: I/F.R., II/F.R., II/1 HR, II/N, III/1 HR, III/N, IV/H.T., V/1 HR, V/N (circled: V/N)

C. Location of Property: F.R. Ext. Walls (Hrs.) N/A — Ext. Wall Opening(s) Protection (Hrs.) N/A

D. Occupancy separation required (Hrs.):

	Each Occupancy		
Occupancy separation required (Hrs.)	N/A		
Sprinklered indicate Yes or No	NO		
Stories 1 or multiple			
a. Actual Area (Ft²):	1,768 SQ. FT.		
b. Basic Allowable Area:	9,000 SQ. FT.		
c. Allowable Area Increase Due to side yards: N	N/A		
E	N/A		
W	N/A		
S	N/A		
d. Side yard area increased (ft)	N/A		
Accumulative sub-total (b+d):	N/A		
Sprinkler: area increase (x 3 single)	N/A		
(x 2 multi)	N/A		
e. Total allowable area for a single story	N/A		
x 2 for multi-story buildings:	N/A		
f. Ratio = a/e[b] (Actual divided by Allowable)			

E. Fire-Resitive Requirements (hrs.): (N/A)

Exterior Bearing Walls	0	Floors - Ceiling Floors	0
Interior Bearing Walls	0	Roofs - Ceiling Roofs	0
Exterior Non-bearing Walls	0	Exterior Doors and Windows	0
Structural Frame	0	Shaft Enclosures	0
Partitions - Permanent	0		

FOOTNOTES:

a. In case of conflict with the U.S. Dept. Of Justice Federal Registers Parts I thru V - ADA Guidelines and specific reference to the Uniform Building Code - Accessibility Chapter, the ADA Guidelines shall prevail.

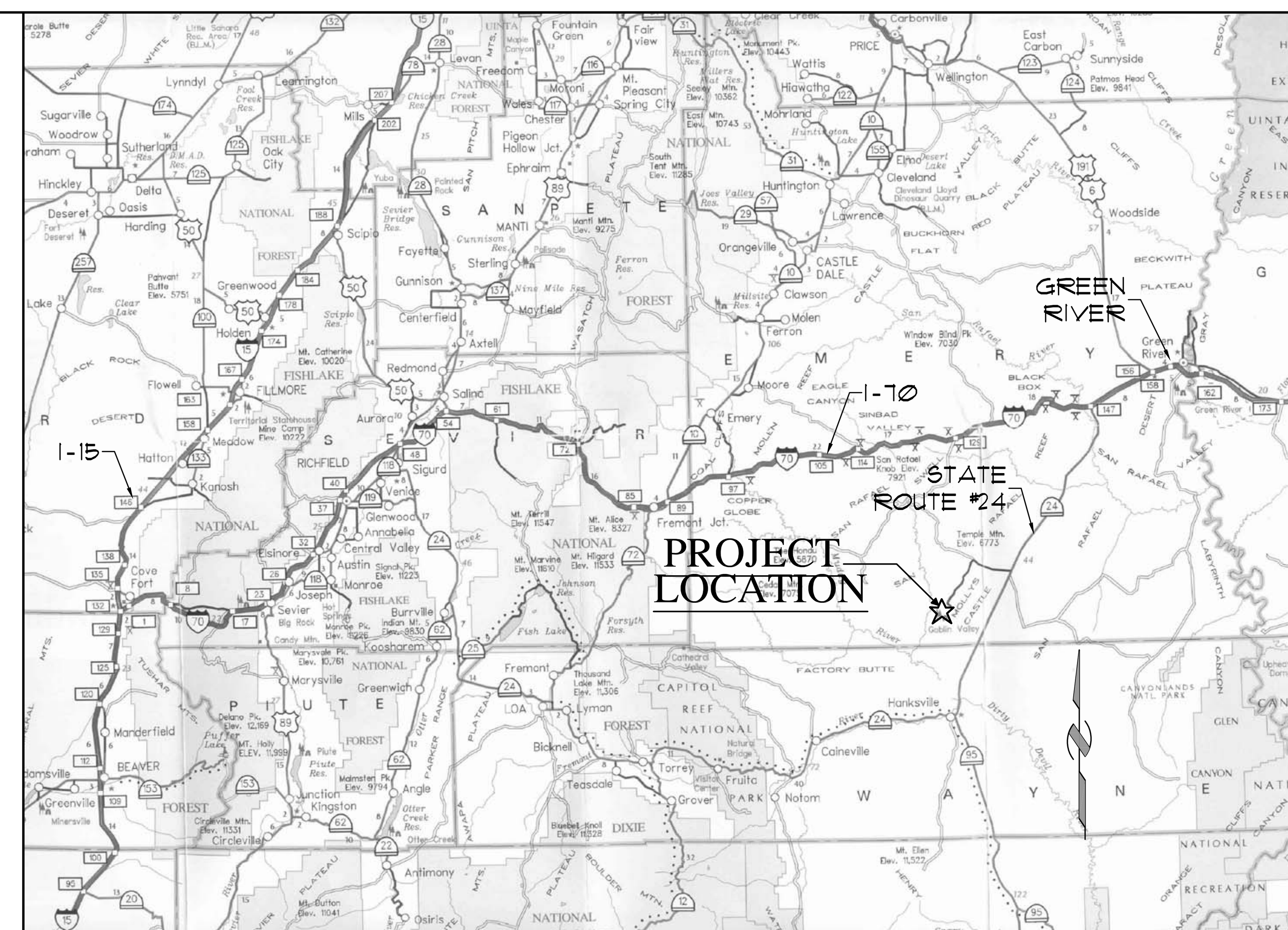
b. If the ratio > 1.0 either 1) Area seperation walls must be installed of 2 hour or 4 hour rating depending on the Construction Type, or 2) The Construction Type must be upgraded to permit a greater Basic Allowable Area. NOTE: Area separation walls must be clearly shown on the key plan in the Contract Documents.

APPROVALS:

Prime Agency ____________ Date ______

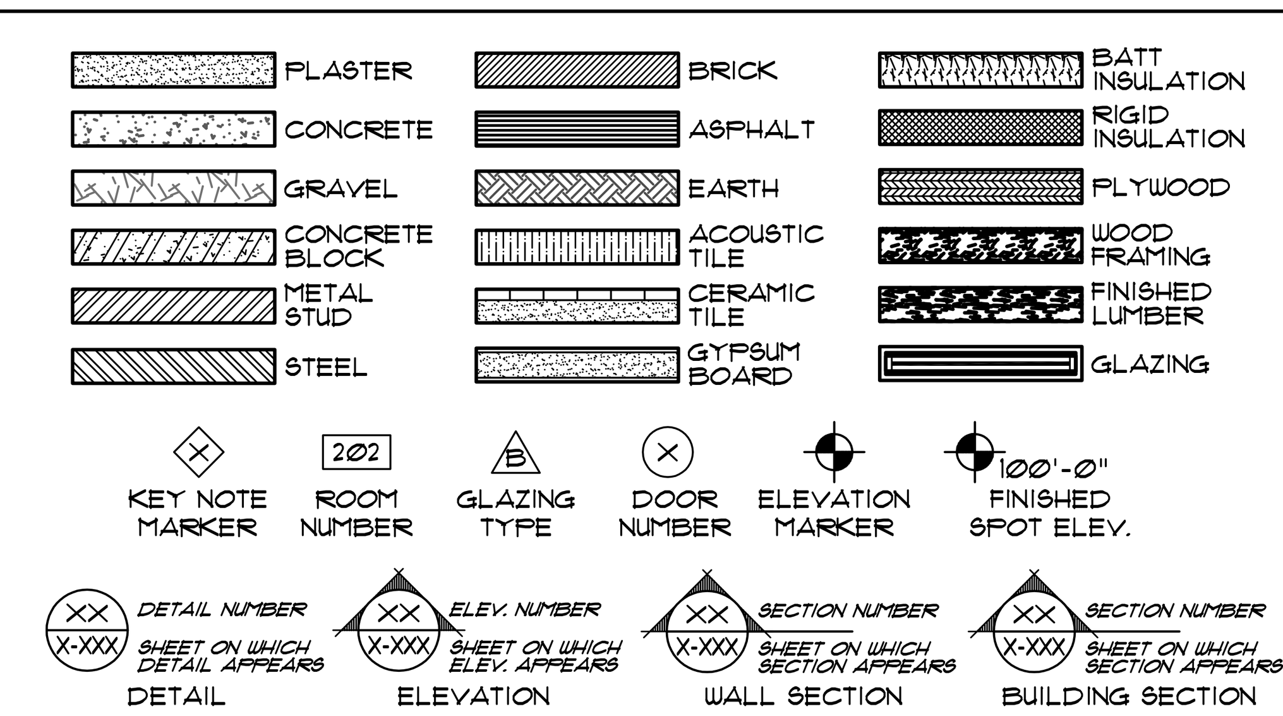
DFCM ____________ Date ______

APPROVAL DOES NOT RELIEVE A/E OF DESIGN LIABILITY



VICINITY MAP

GRAPHIC KEY



DRAWING INDEX

DRA Project # 2524.GVVC

dave robinson architects
4525 Wasatch Blvd., Suite 301
Salt Lake City, Utah 84124
801-272-0242

State of Utah
Department of Administrative Services
Division of Facilities - Construction & Management
4110 State Office Building
Salt Lake City, Utah 84114
Phone: (801) 538 - 3018
Fax: (801) 538 - 3267
Internet: http://dfcm.utah.gov

NEW VISITORS CENTER for GOBLIN VALLEY STATE PARK

UTAH STATE DIVISION OF FACILITIES AND CONSTRUCTION MANAGEMENT

Revisions	
Date	Item
12-29-05	

GOBLIN VALLEY
G-002
2524.GVVC

Goblin Valley State Park
Existing Visitors Center

"Aproximate location" of the existing
UNABLE TO PROVIDE EXACT DEPTH & LOCATION!

LEACH FIELD

based on information recieved from the Park Ranger stationed at this facility on,

11-09-2005

begin striping 4" wide "white"

begin striping 4" wide "white"

begin striping 4" wide double "yellow"

top of slope

toe of slope

2" pipe gate

magnetic loop detector?

tire ripper

4" bollard 36" high

el=71.00 begin ramp

top ramp el=71.44

el=71.44

el=71.00

el=71.00 concrete slab

24" step typ.

12'

Existing Building

8" raised step el=71.67

F.F. ELEV 71.67

el=70.33

SWR

el=70.33

12" step typ.

el=71.00

el=71.00

4" bollard 36" high

el=71.14

el=71.00 note: the note

flag pole (2' dia.base raised 4")

STOP

2-rail fence

4-strand bobwire fence

F-68.51

F-70.51

F-68.57

F-70.52

F-70.64

Existing Asphalt

F-68.60

F-70.77

F-70.68

F-69.02

F-71.34

(found) top of pipe when probed @ this location

4"p.v.c. cap clean out?

el=69.55

pipe elev 65.55
cap elev 69.55
± dist= 75 feet

guy wire

Concrete pad & wall (5' high & encloses 3 sides)

el=69.95

antenna mast

Propane

propane tank

guy wire

guy wire

GRAPHIC SCALE

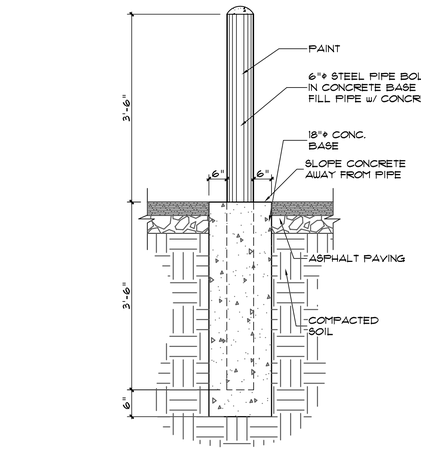
10 0 5 10 20 40

(IN FEET)
1 inch = 10 ft.

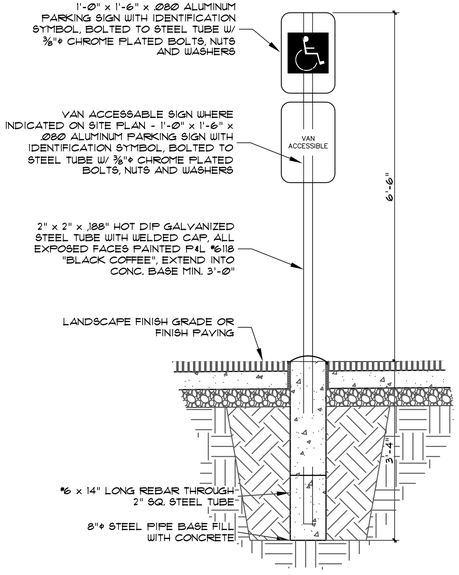
Dave Robinson Architects
4525 Wasatch Blvd. Suite 301 Salt Lake City UT,84124-4211
Attn: Craig Lee

Goblin Valley Visitors Center
Existing Site Drawing
BARKER & ASSOC. NO. 5-38-EC SHEET 1 OF 1

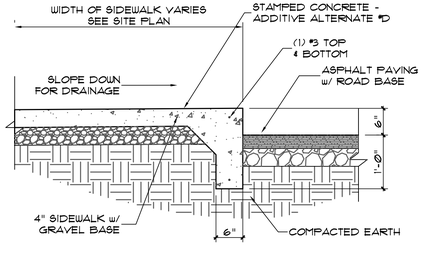
Barker & Associates
SURVEYING & ENGINEERING SERVICES, 36 WEST MAIN (BOX 43) WELLINGTON, UT. 84542
PHONE & FAX # (435) 637-2394 email: abarker@emerytelcom.net



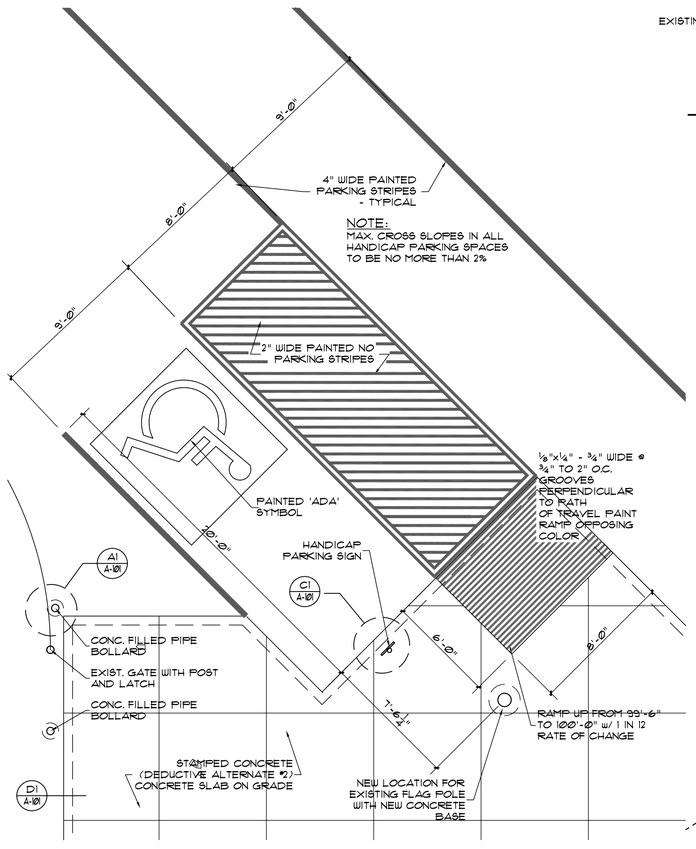
A1 A-Ø1 PIPE BOLLARD DETAIL
SCALE: 3/4" = 1'-Ø"



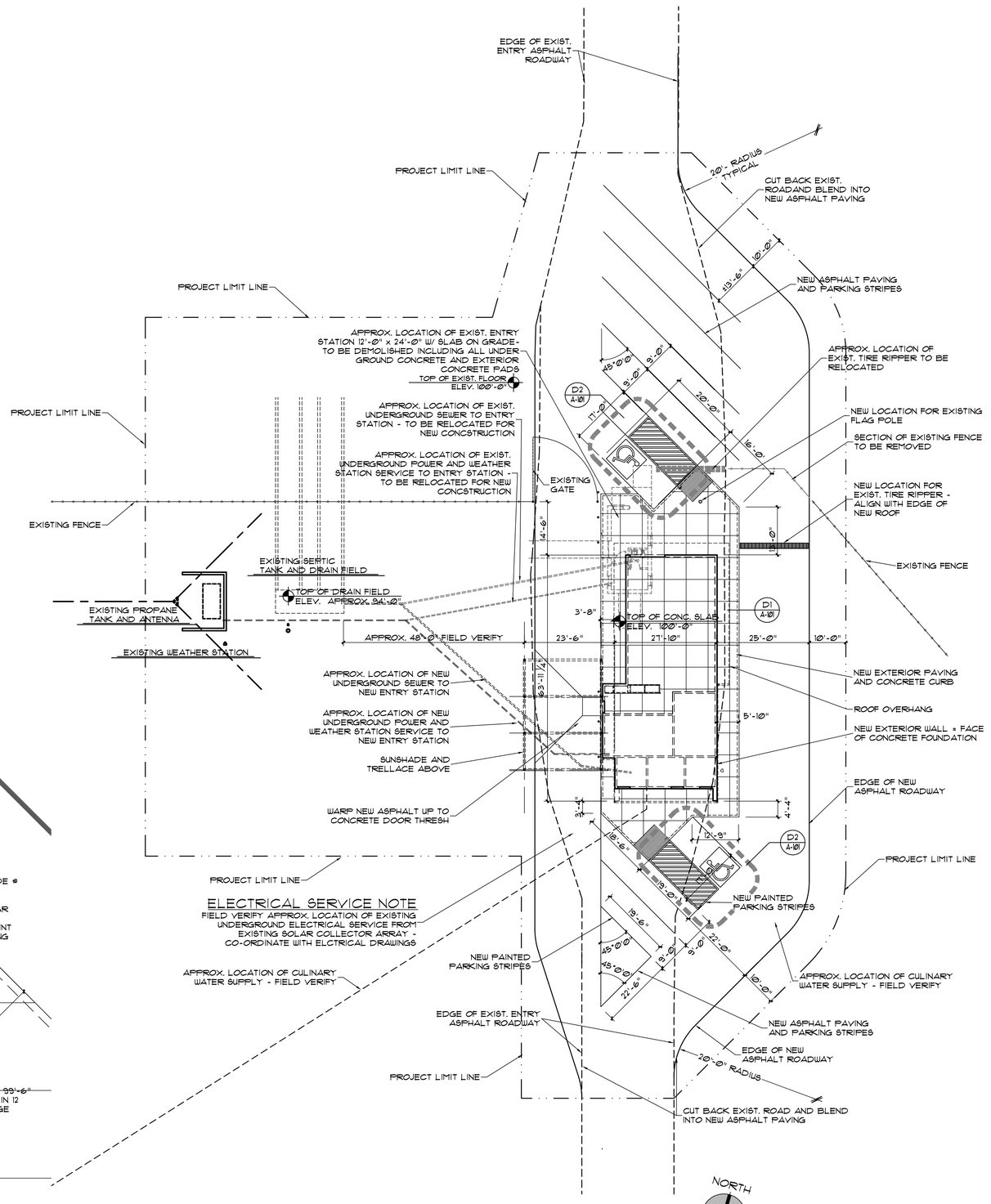
C1 A-Ø1 HANDICAP SIGN DETAIL
SCALE: 3/4" = 1'-Ø"



D1 A-Ø1 CURB DETAIL - STONE PAVING
SCALE: 3/4" = 1'-Ø"



D2 A-Ø1 HANDICAP PARKING STALL
SCALE: 1/4" = 1'-Ø"



dave robinson architects
4525 Wasatch Blvd., Suite 301
Salt Lake City, Utah 84124
801-272-0242

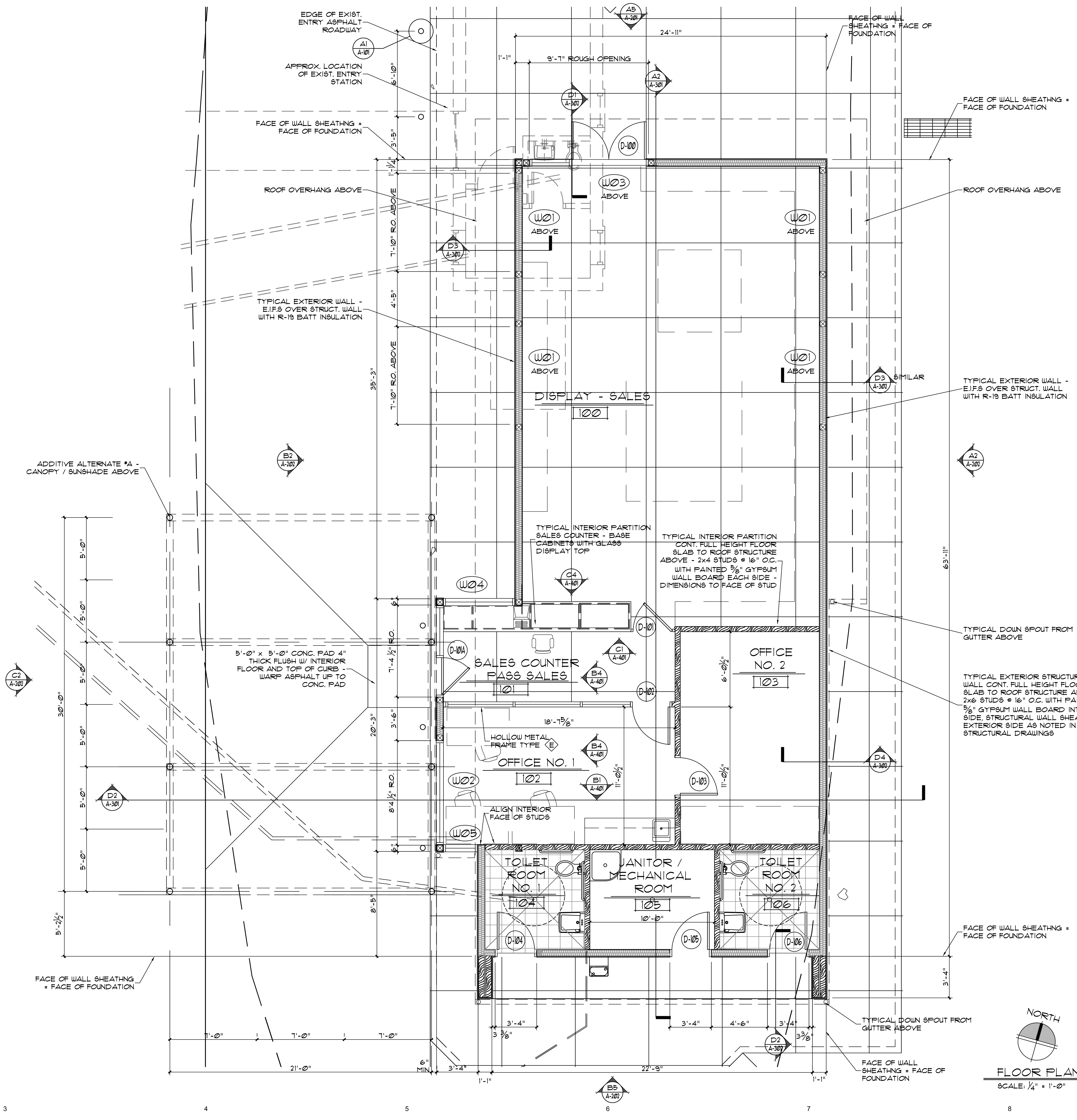
DRA Project # 2524.GVVC

State of Utah
Department of Administrative Services
Division of Facilities - Construction & Management
4110 State Office Building
Salt Lake City, Utah 84114
Phone: (801) 538 - 3018
Fax: (801) 538 - 3267
Internet: http://dfcm.utah.gov

NEW VISITORS CENTER for GOBLIN VALLEY STATE PARK
UTAH STATE DIVISION OF FACILITIES AND CONSTRUCTION MANAGEMENT

Revisions	
Date	Item
12-29-05	

GOBLIN VALLEY
A-101
2524.GVVC



FLOOR PLAN

SCALE: ¼" = 1'-0"

DRA Project # 2524.GVVC

dave robinson architects
4525 Wasatch Blvd., Suite 301
Salt Lake City, Utah 84124
801-272-0242

State of Utah
Department of Administrative Services
Division of Facilities - Construction & Management
4110 State Office Building
Salt Lake City, Utah 84114
Phone: (801) 538 - 3018
Fax: (801) 538 - 3267
Internet: http://dfcm.utah.gov

NEW VISITORS CENTER for GOBLIN VALLEY STATE PARK

UTAH STATE DIVISION OF FACILITIES AND CONSTRUCTION MANAGEMENT

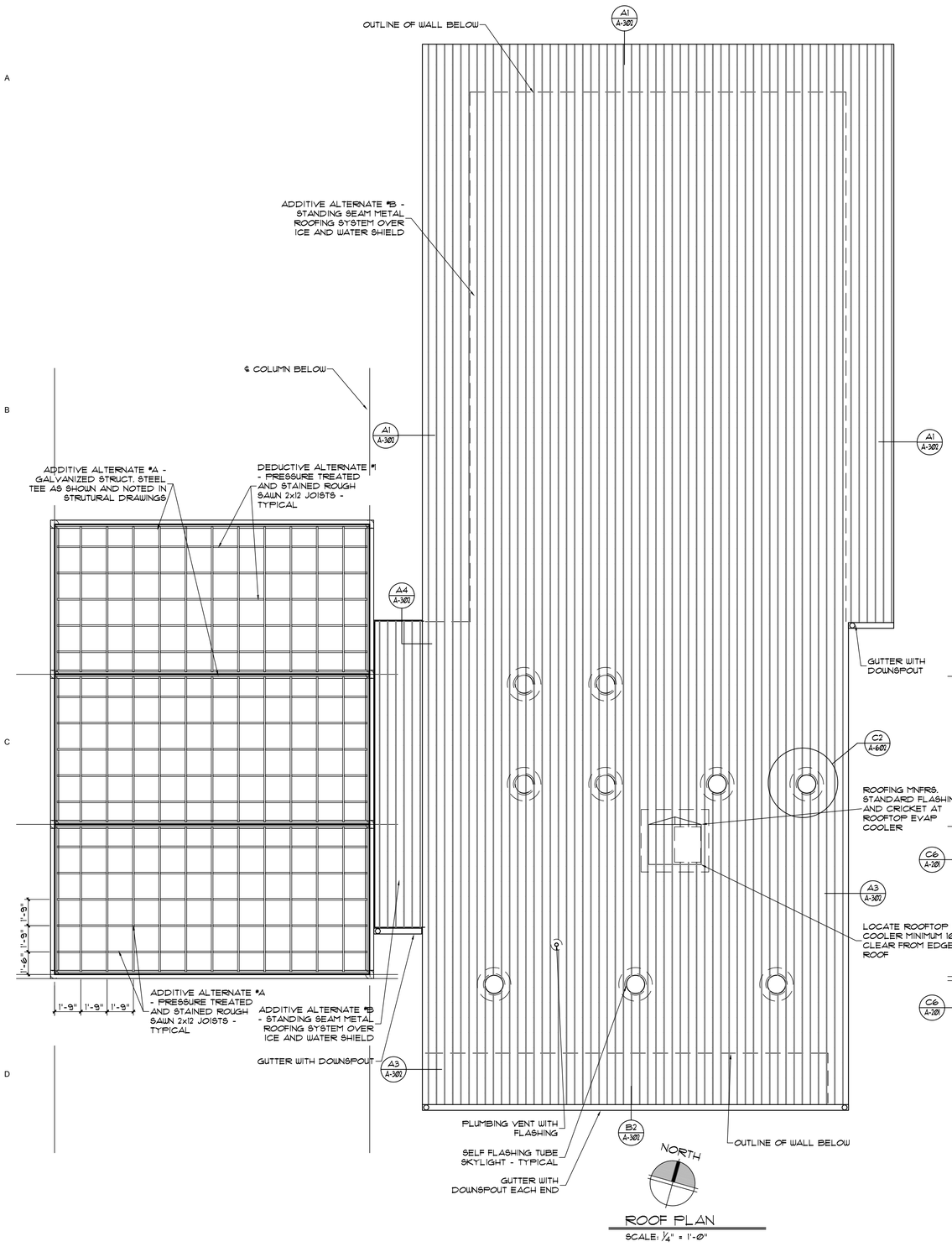
Revisions	
Date	Item

12-29-05

GOBLIN VALLEY

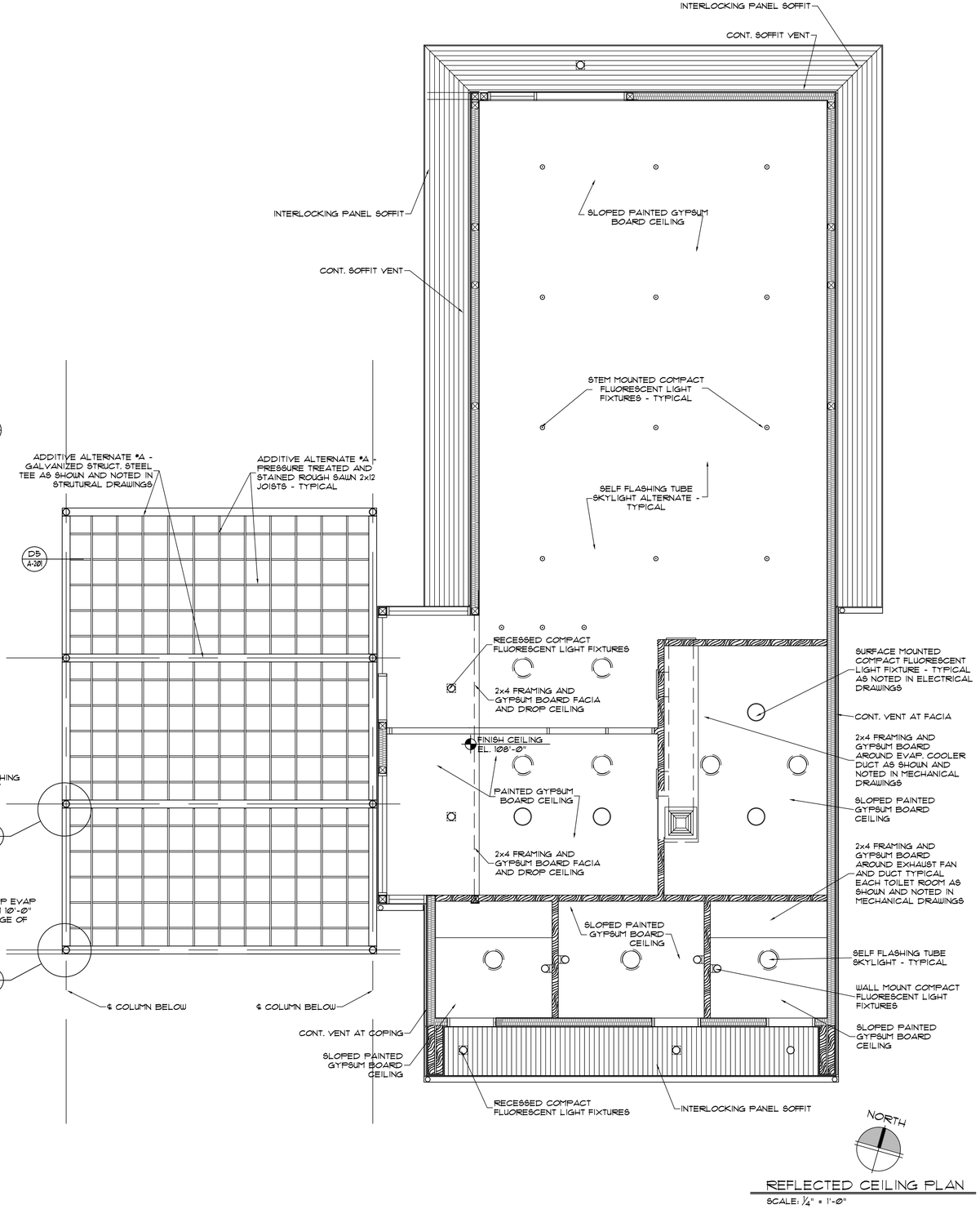
A-102

2524.GVVC



ROOF PLAN

SCALE: ¼" = 1'-0"



REFLECTED CEILING PLAN

SCALE: ¼" = 1'-0"

DRA Project # 2524.GVVC

dave robinson architects
4525 Wasatch Blvd., Suite 301
Salt Lake City, Utah 84124
801-272-0242

State of Utah
Department of Administrative Services
Division of Facilities - Construction & Management
4110 State Office Building
Salt Lake City, Utah 84114
Phone: (801) 538 - 3018
Fax: (801) 538 - 3267
Internet: http://dfcm.utah.gov

NEW VISITORS CENTER for GOBLIN VALLEY STATE PARK

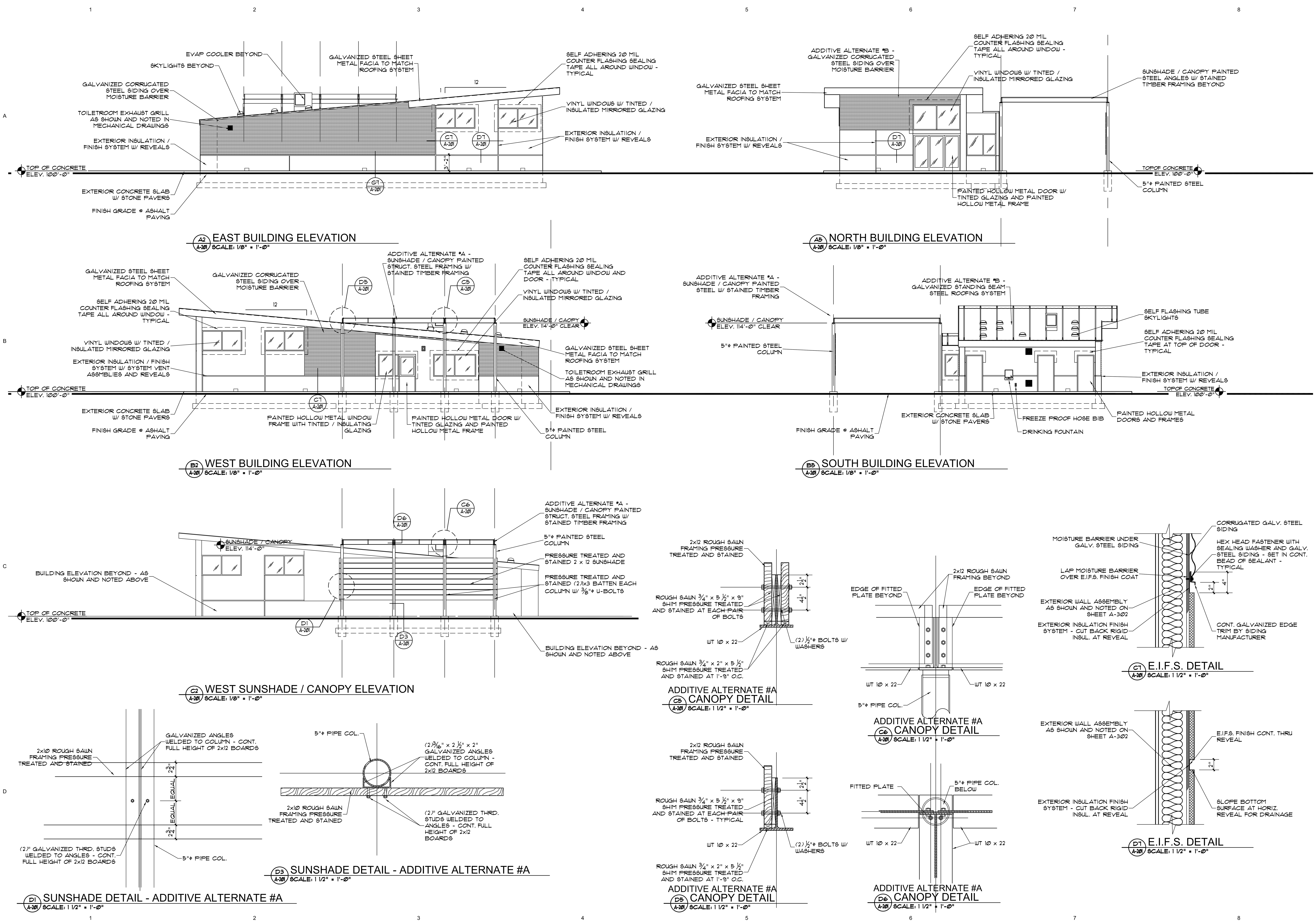
UTAH STATE DIVISION OF FACILITIES AND CONSTRUCTION MANAGEMENT

Revisions	
Date	Item
12-29-05	

GOBLIN VALLEY

A-103

2524.GVVC



DRA Project #
2524.GVVC

dave robinson architects
4525 Wasatch Blvd., Suite 301
Salt Lake City, Utah 84124
801-272-0242

State of Utah
Department of Administrative Services
Division of Facilities - Construction & Management
4110 State Office Building
Salt Lake City, Utah 84114
Phone: (801) 538 - 3018
Fax: (801) 538 - 3267
Internet: http://dfcm.utah.gov

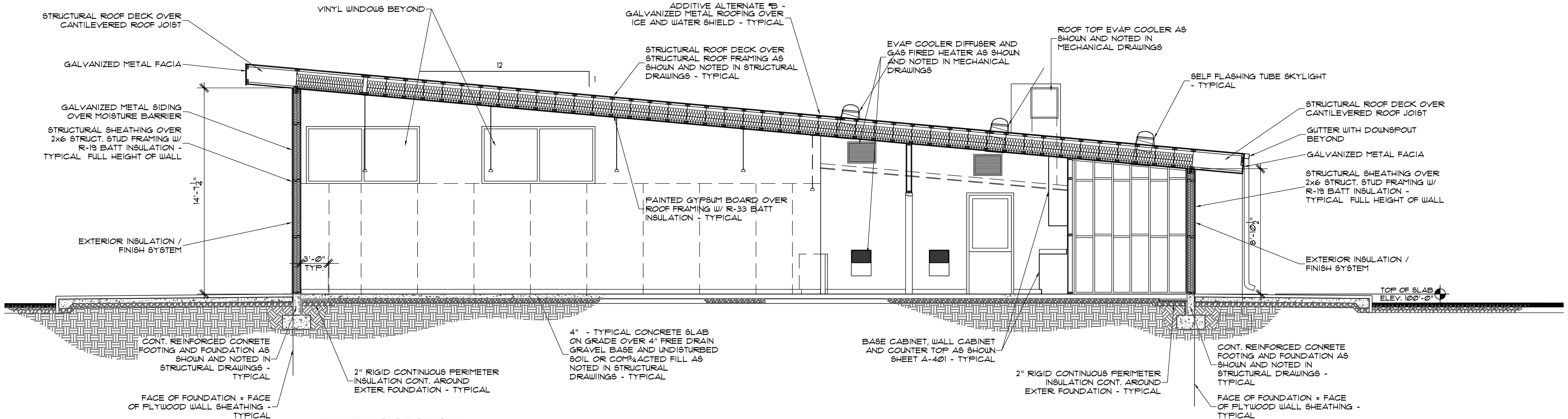
NEW VISITORS CENTER for GOBLIN VALLEY STATE PARK

UTAH STATE DIVISION OF FACILITIES AND CONSTRUCTION MANAGEMENT

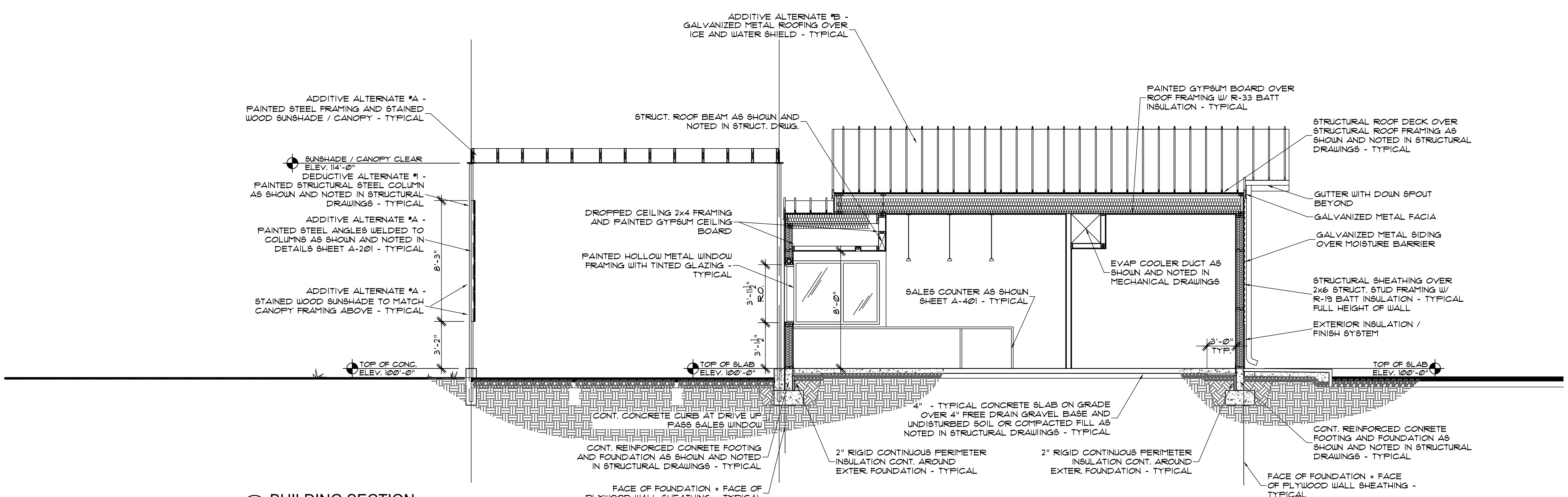
Revisions	
Date	Item

12-29-05

GOBLIN VALLEY
A-201
2524.GVVC



A2 / A-301 **BUILDING SECTION**
SCALE: 1/4" = 1'-0"



D2 / A-301 **BUILDING SECTION**
SCALE: 1/4" = 1'-0"

DRA Project #
2524.GVVC

dave robinson architects
4525 Wasatch Blvd., Suite 301
Salt Lake City, Utah 84124
801-272-0242

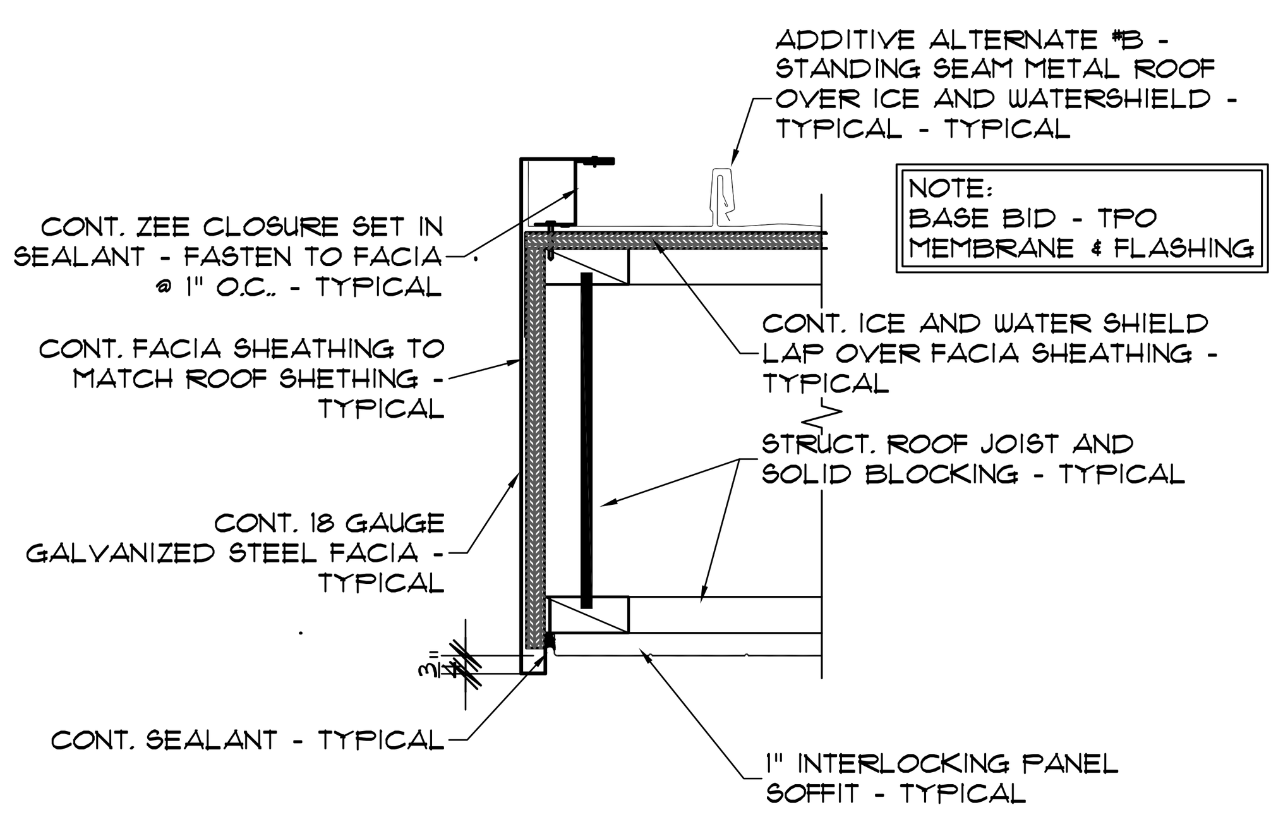
State of Utah
Department of Administrative Services
Division of Facilities - Construction & Management
4110 State Office Building
Salt Lake City, Utah 84114
Phone: (801) 538 - 3018
Fax: (801) 538 - 3267
Internet: http://dfcm.utah.gov

NEW VISITORS CENTER for GOBLIN VALLEY STATE PARK
UTAH STATE DIVISION OF FACILITIES AND CONSTRUCTION MANAGEMENT

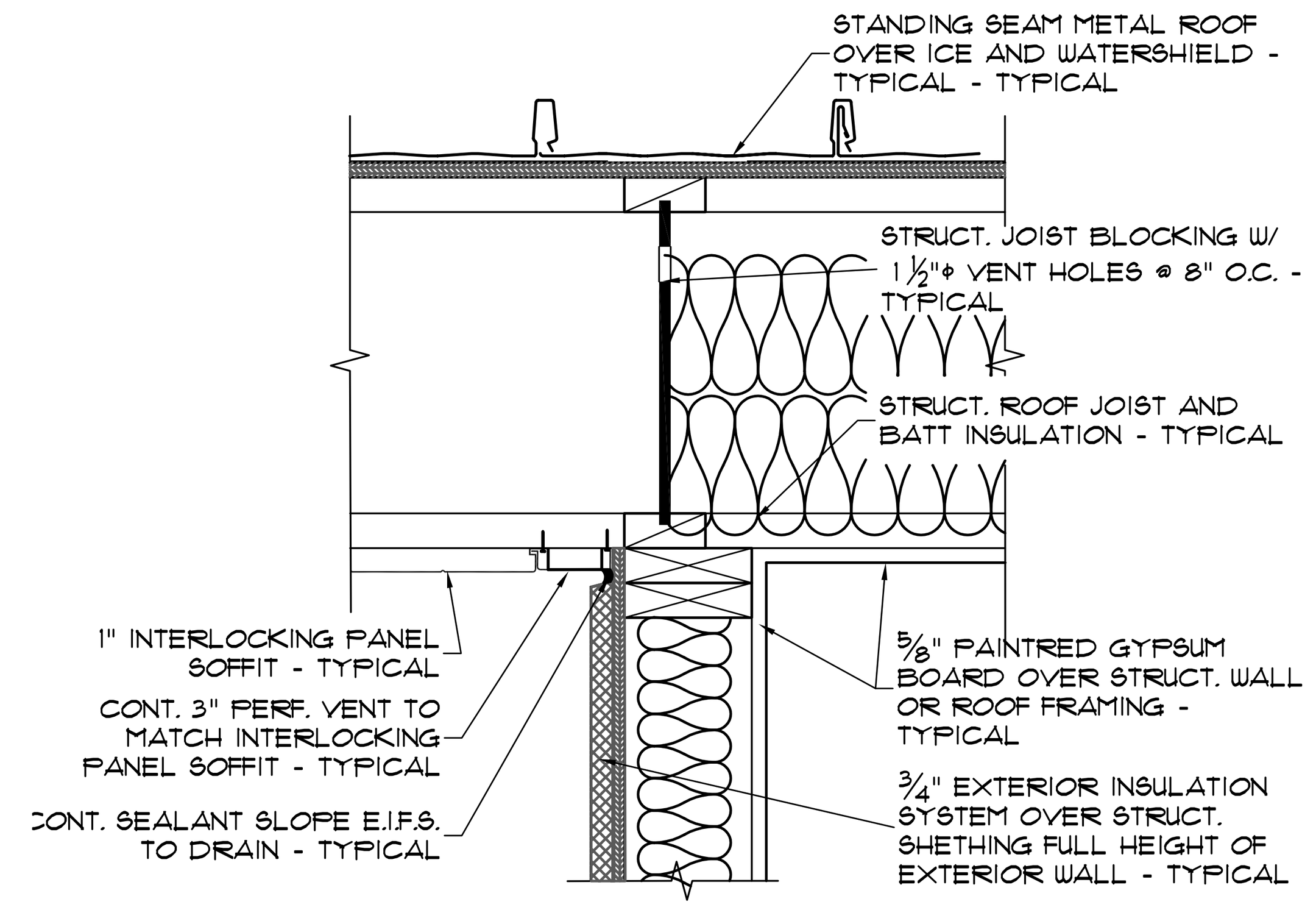
Revisions	
Date	Item

12-29-05

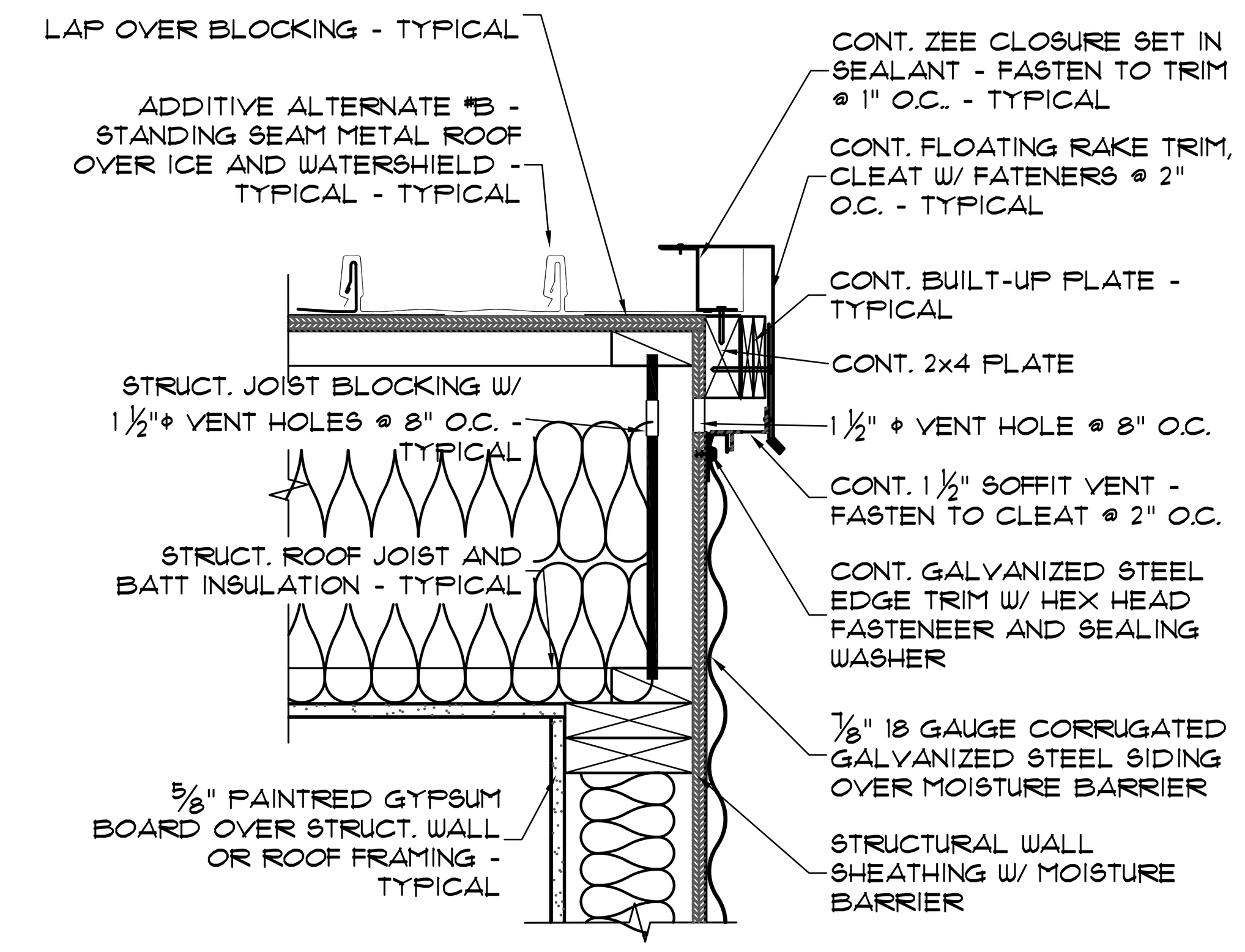
GOBLIN VALLEY
A-301
2524.GVVC



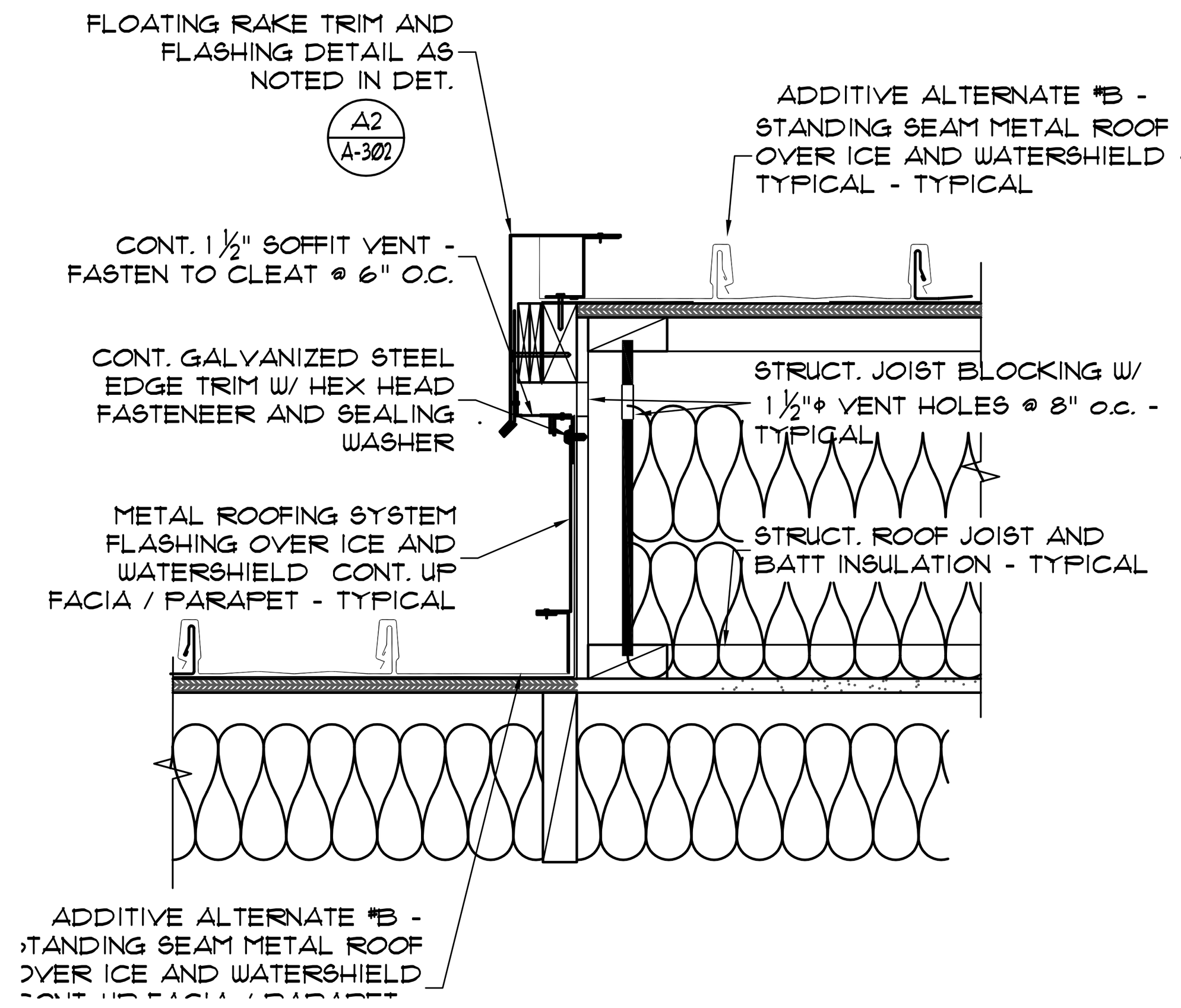
A1 / A-302 FACIA AND FLASHING DETAIL
SCALE: 1 1/2" = 1'-0"



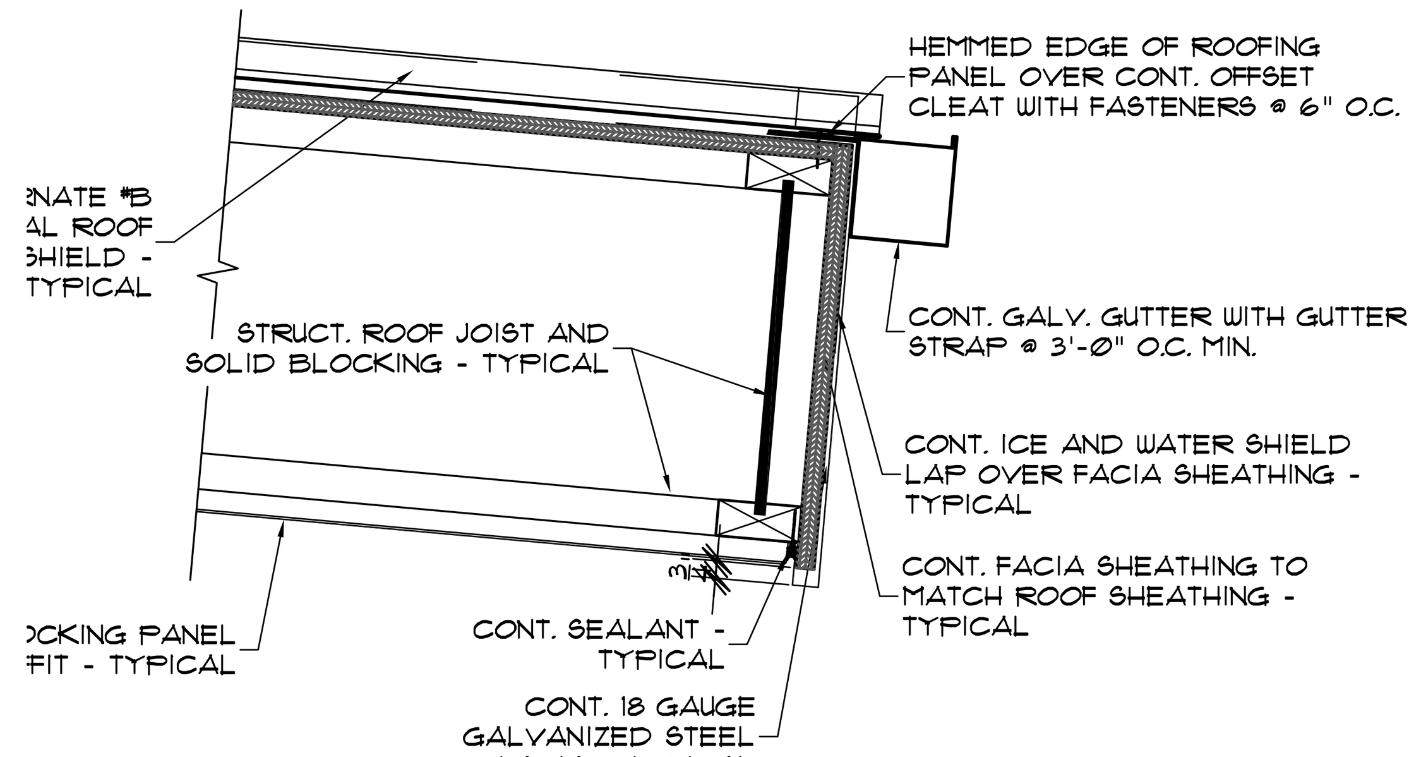
A2 / A-302 SOFFIT VENT DETAIL
SCALE: 1 1/2" = 1'-0"



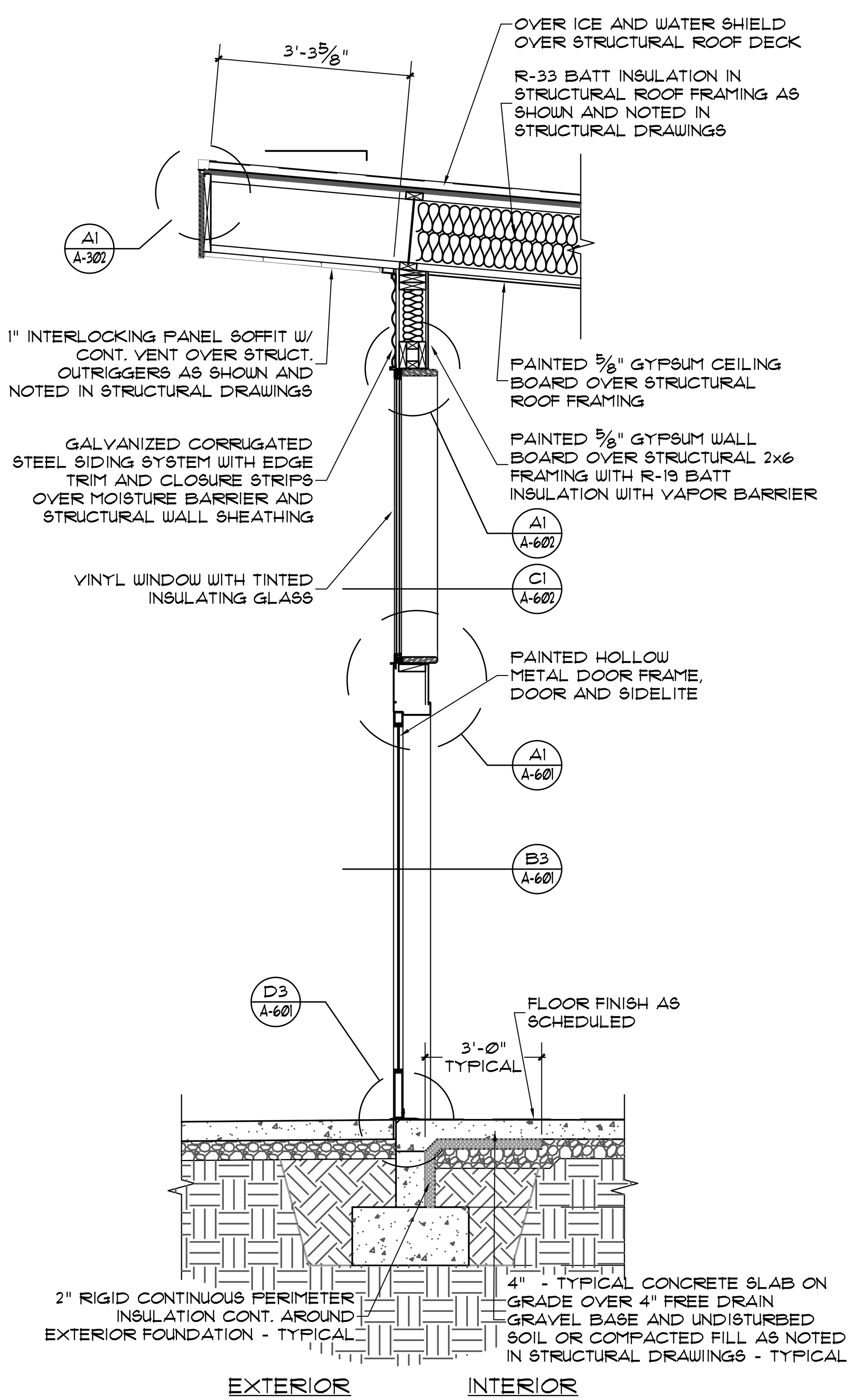
A3 / A-302 FACIA AND FLASHING DETAIL
SCALE: 1 1/2" = 1'-0"



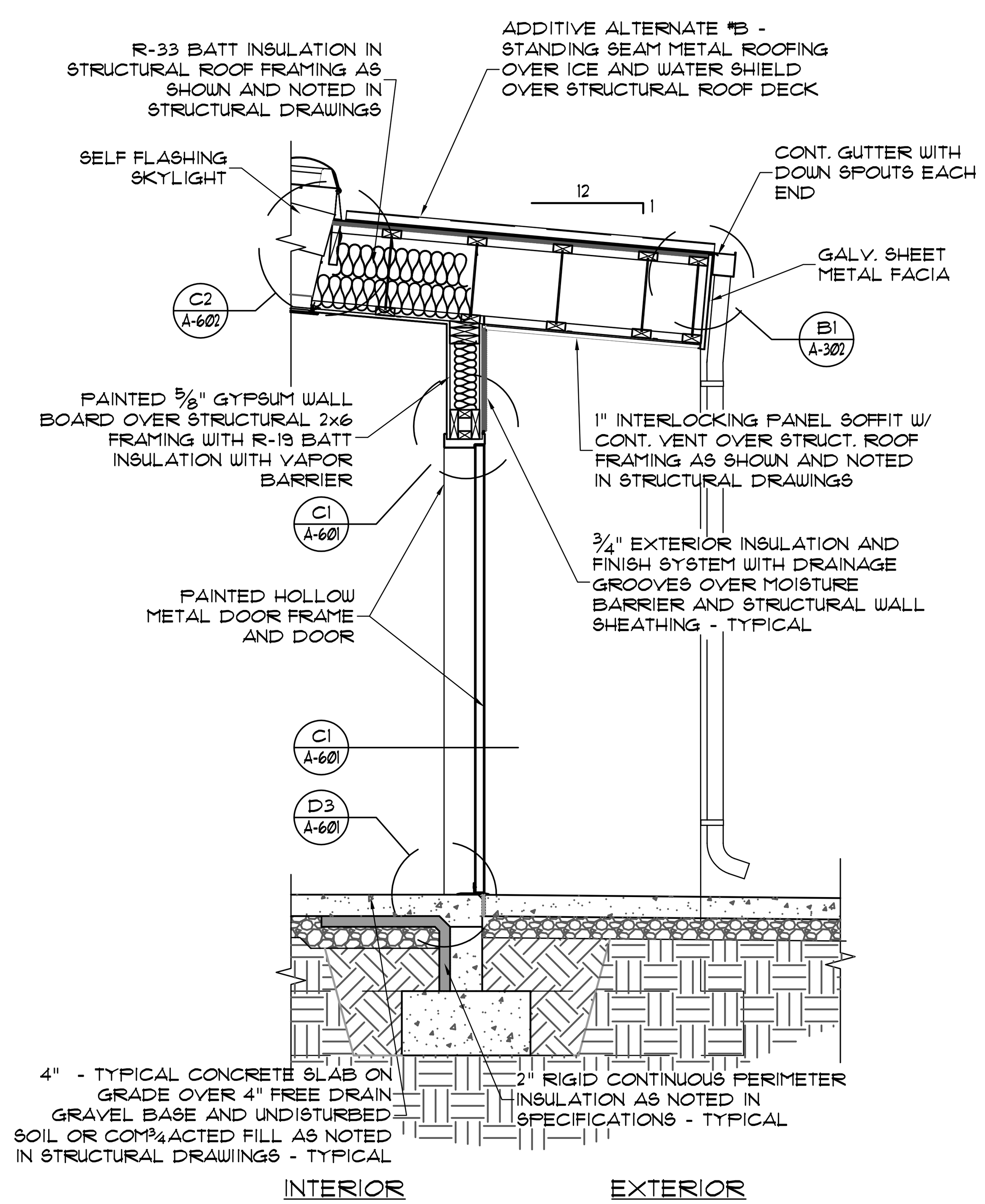
A4 / A-302 FACIA AND FLASHING DETAIL
SCALE: 1 1/2" = 1'-0"



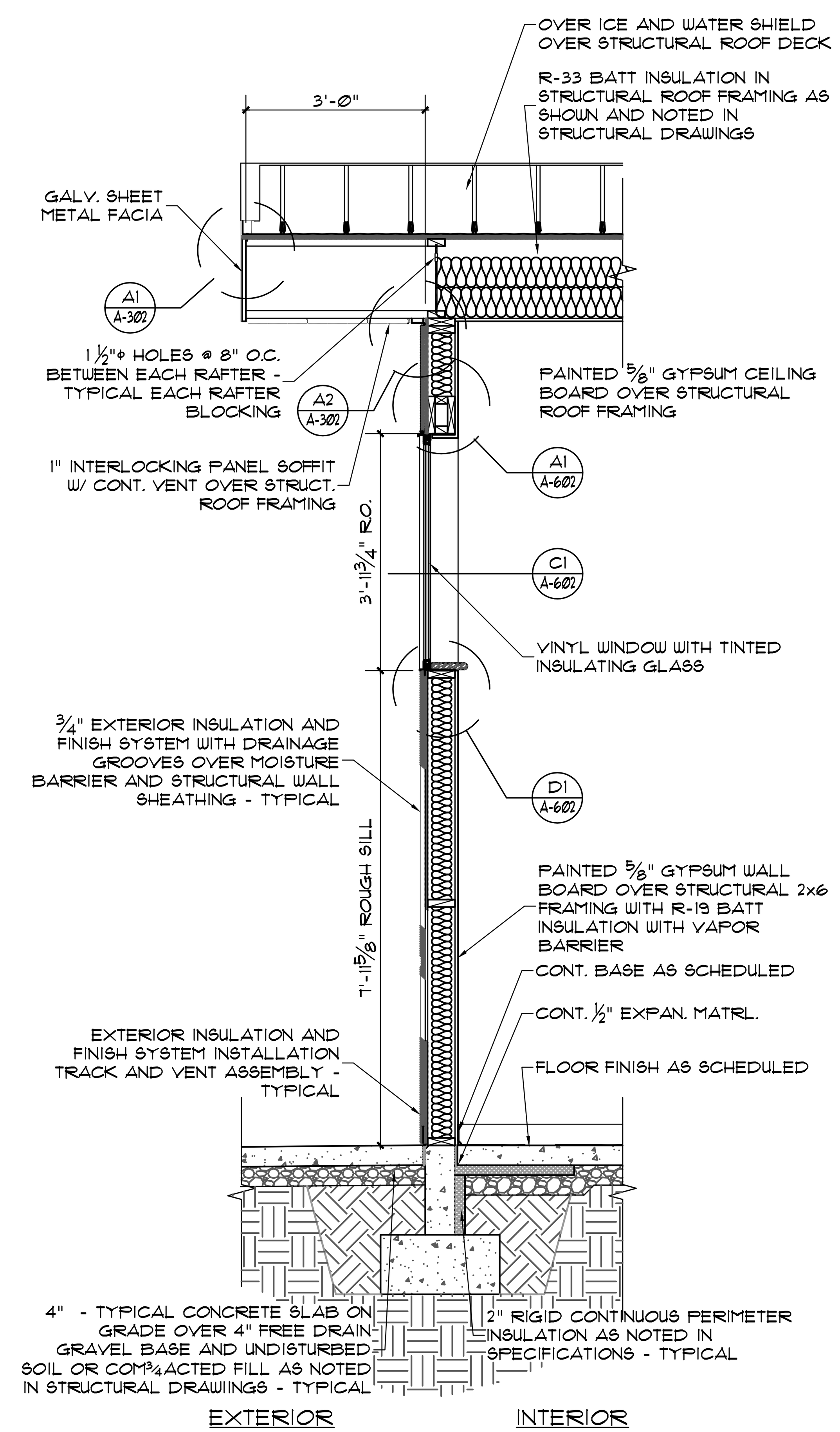
B2 / A-302 FACIA AND FLASHING DETAIL
SCALE: 1 1/2" = 1'-0"



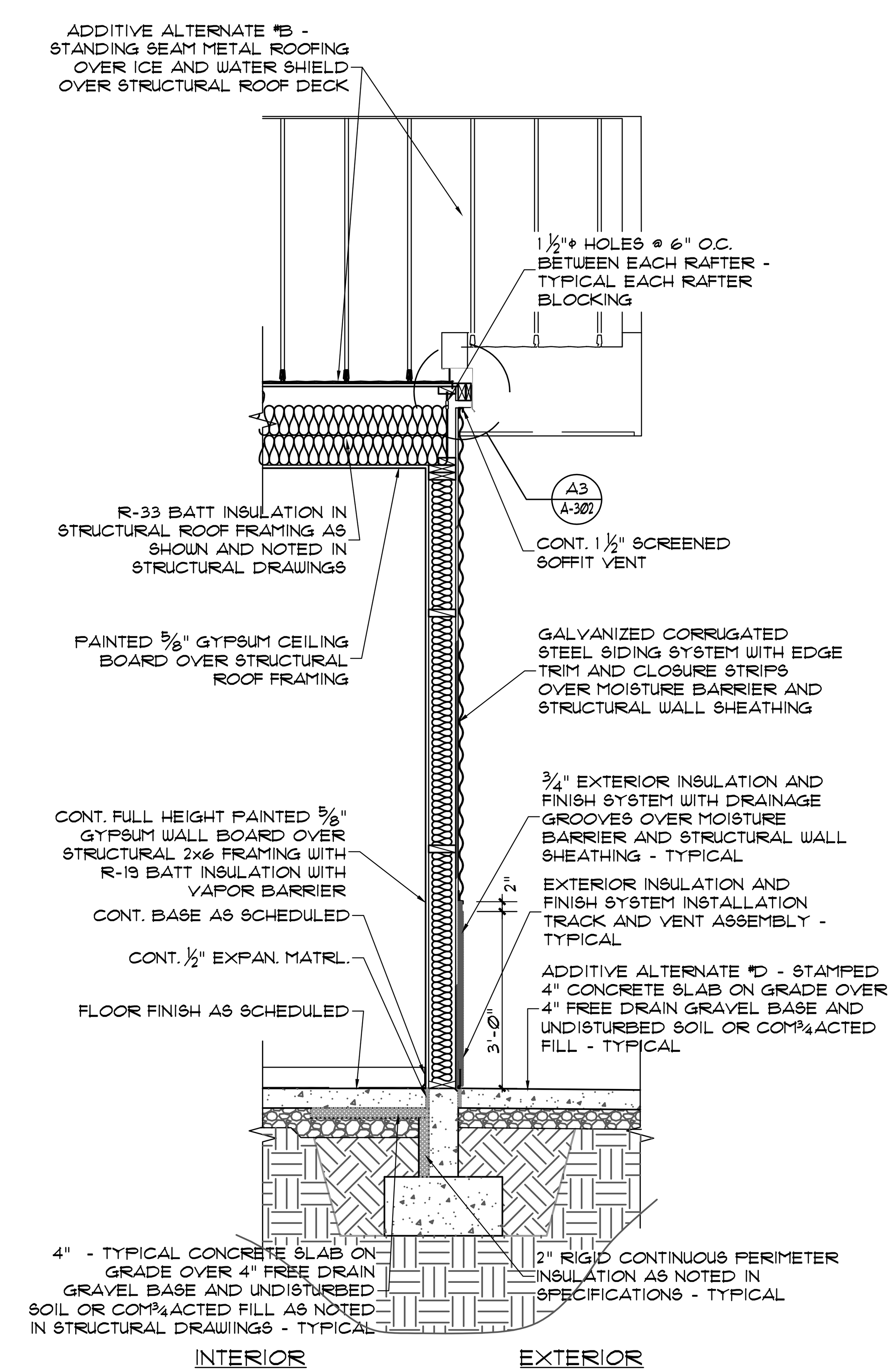
D1 / A-302 WALL SECTION
SCALE: 1/2" = 1'-0"



D2 / A-302 WALL SECTION
SCALE: 1/2" = 1'-0"



D3 / A-302 WALL SECTION
SCALE: 1/2" = 1'-0"



D4 / A-302 WALL SECTION
SCALE: 1/2" = 1'-0"

DRA Project #
2524.GVVC

dave robinson architects
4525 Wasatch Blvd., Suite 301
Salt Lake City, Utah 84124
801-272-0242

State of Utah
Department of Administrative Services
Division of Facilities - Construction & Management
4110 State Office Building
Salt Lake City, Utah 84114
Phone: (801) 538 - 3018
Fax: (801) 538 - 3267
Internet: http://dfcm.utah.gov

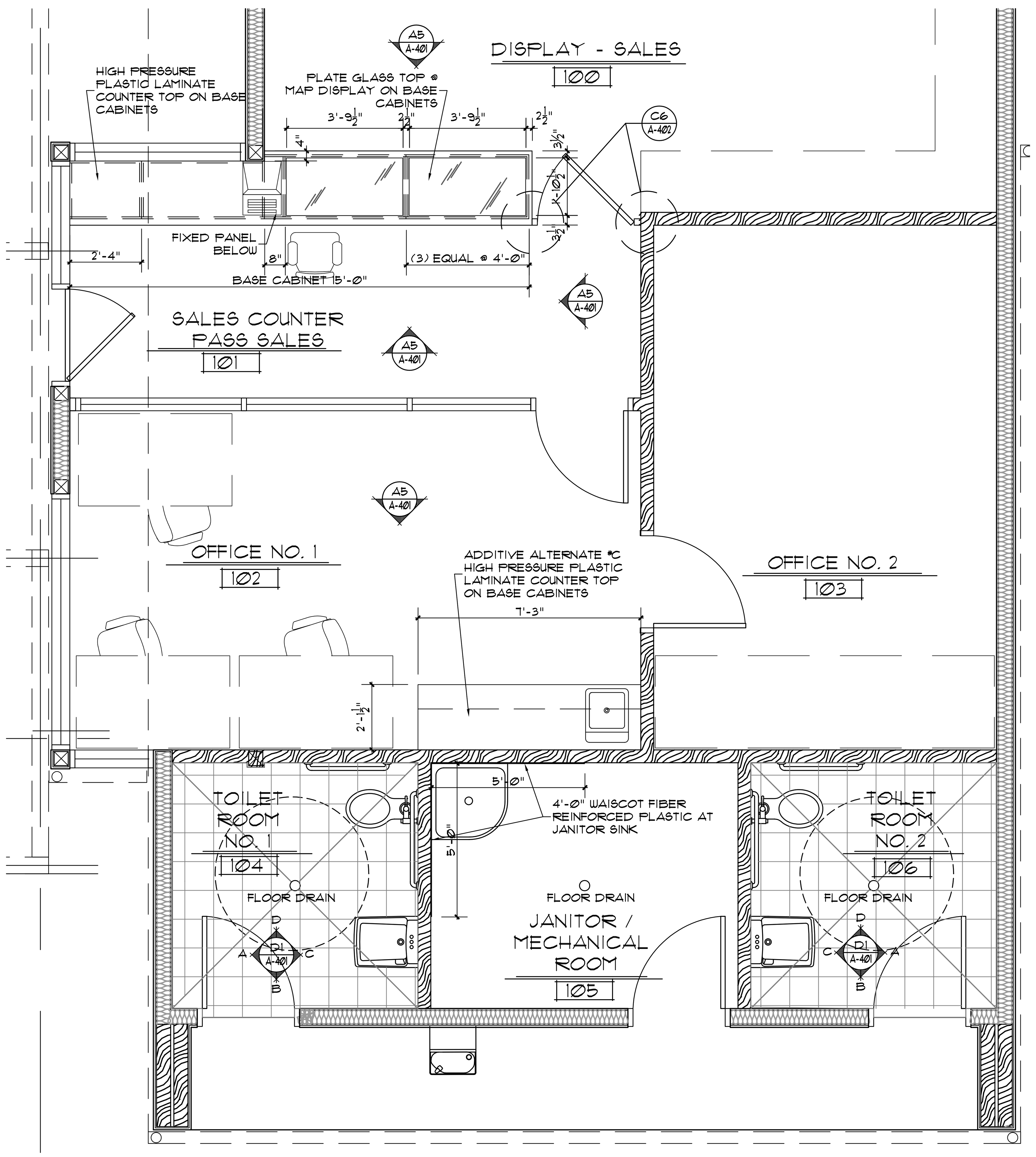
NEW VISITORS CENTER for GOBLIN VALLEY STATE PARK

UTAH STATE DIVISION OF FACILITIES AND CONSTRUCTION MANAGEMENT

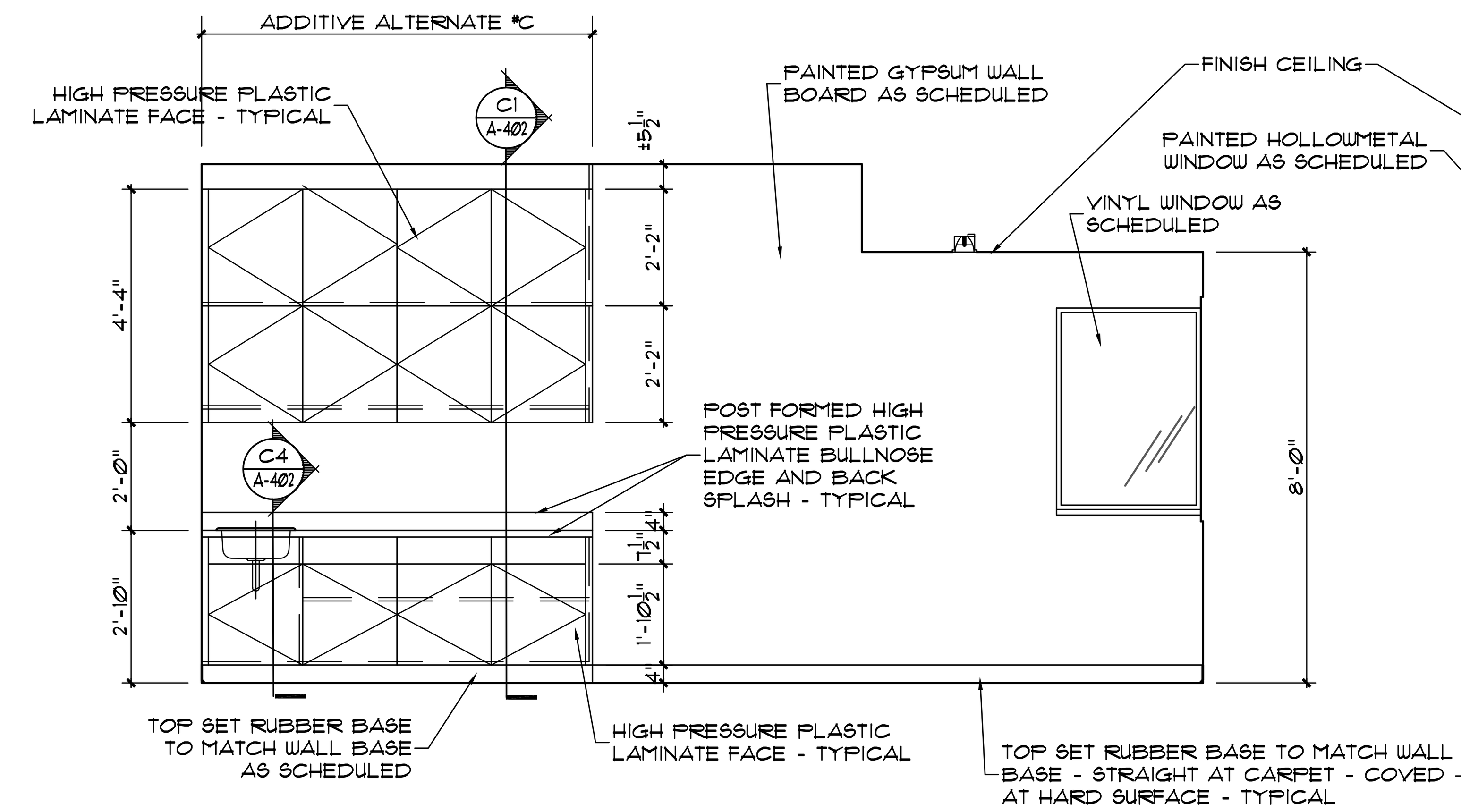
Revisions	
Date	Item

12-29-05

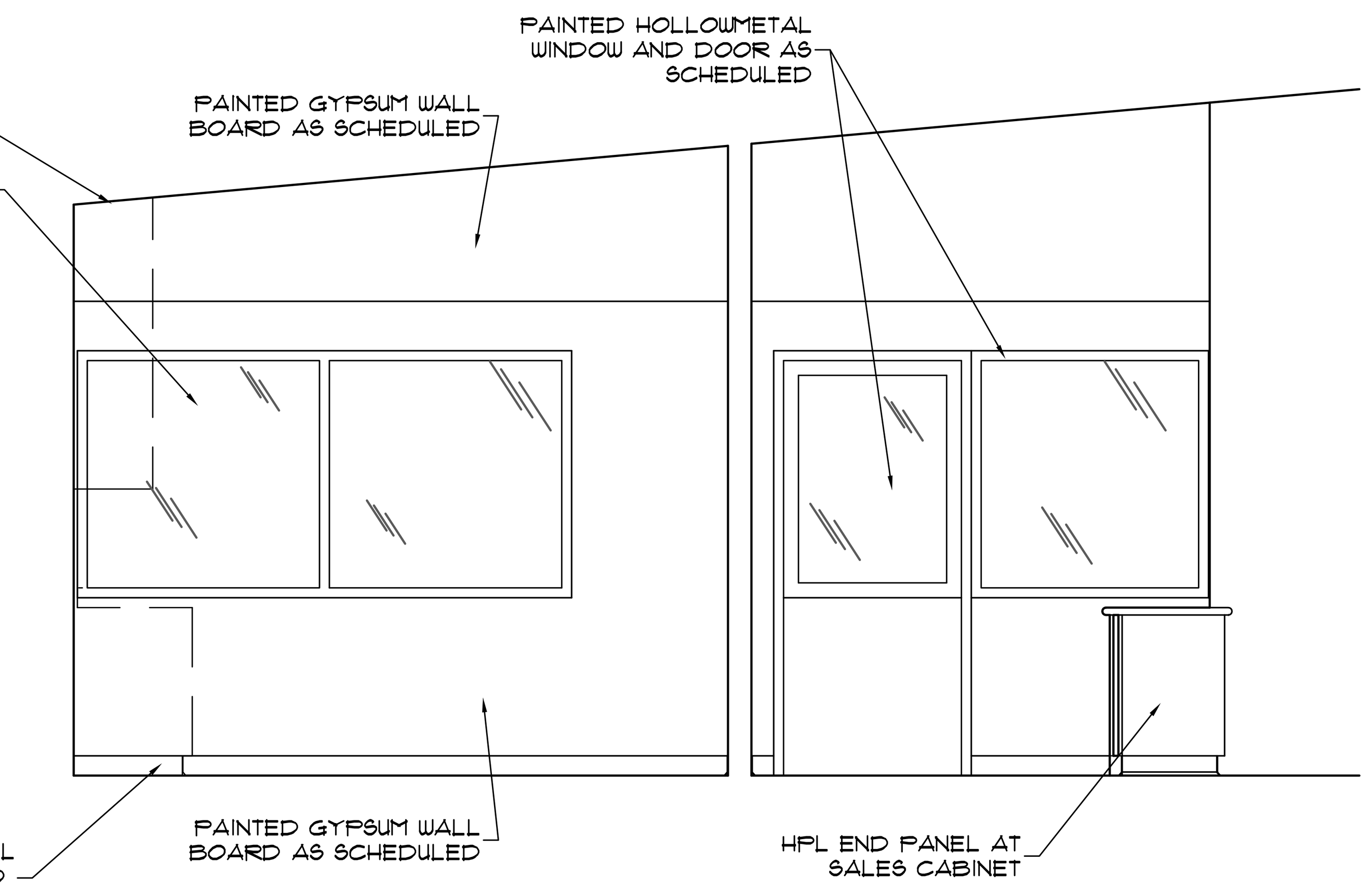
GOBLIN VALLEY
A-302
2524.GVVC



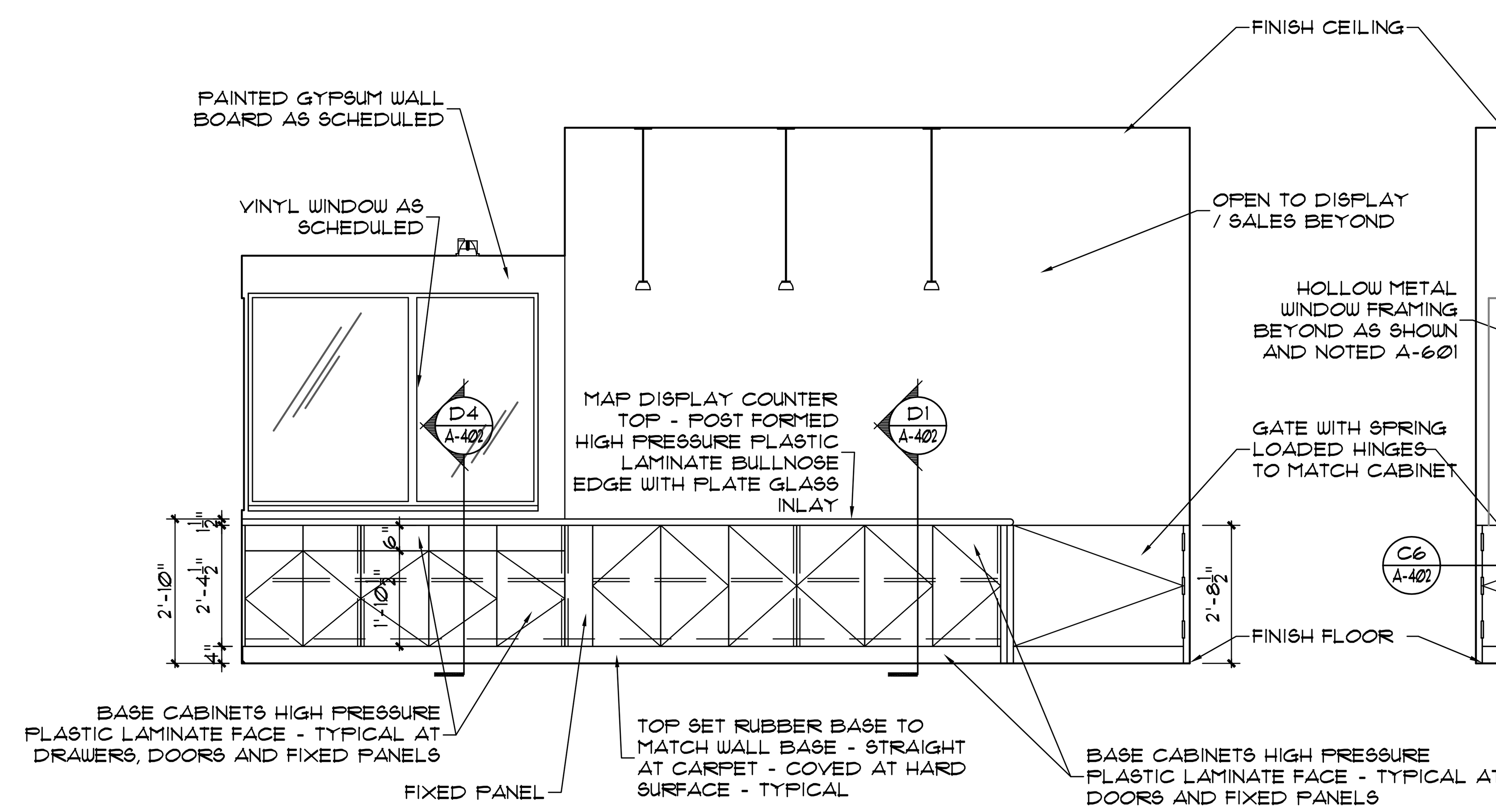
C1 A-401 TOILETROOM FLOOR PLANS
SCALE: 3/8" = 1'-0"



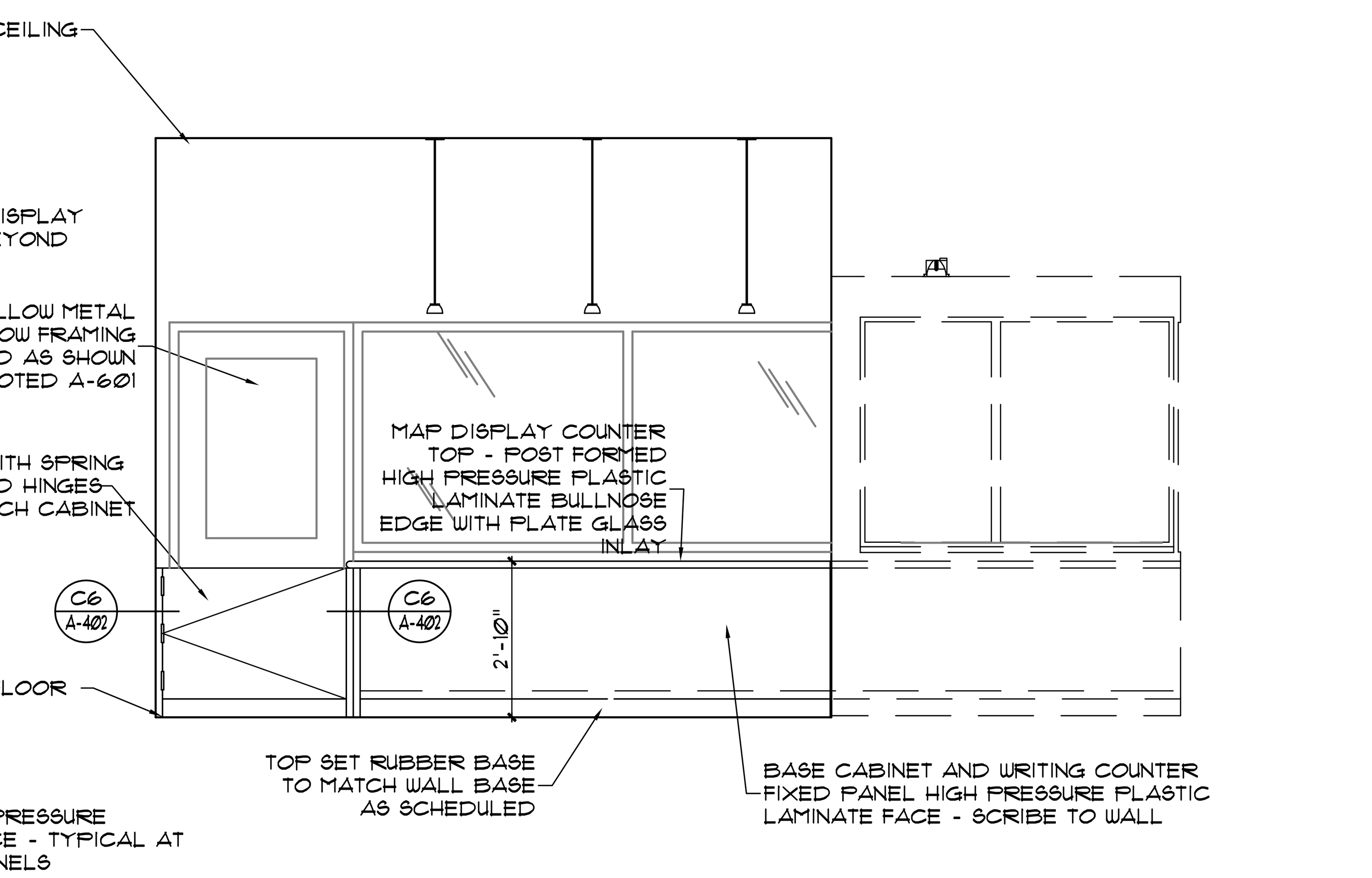
B1 A-401 OFFICE CABINET ELEVATION - DEDUCTIVE ALTERNATE #4
SCALE: 3/8" = 1'-0"



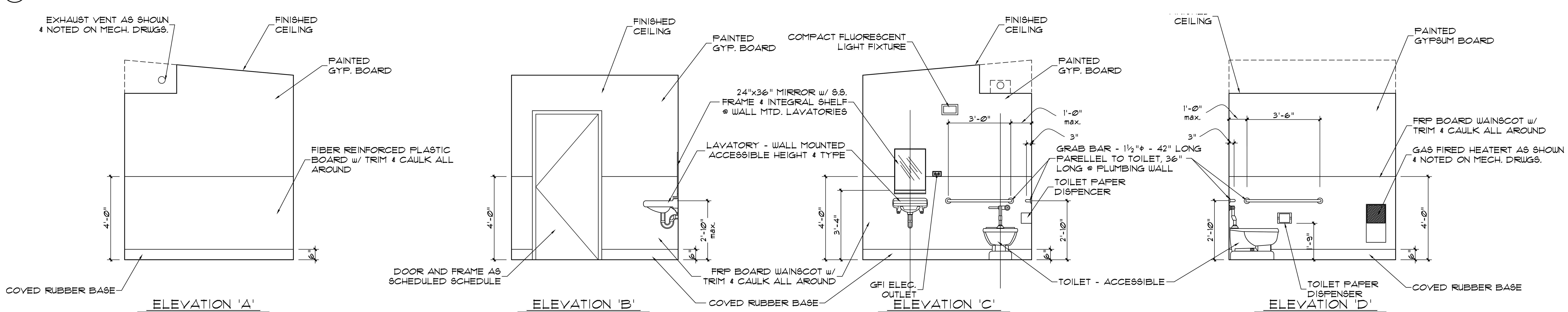
C1 A-401 OFFICE END WALL & SALES CABINET ELEVATION
SCALE: 3/8" = 1'-0"



C1 A-401 SALES COUNTER CABINET ELEVATION
SCALE: 3/8" = 1'-0"



C4 A-401 SALES COUNTER CABINET ELEVATION
SCALE: 3/8" = 1'-0"



D1 A-401 TOILETROOM ELEVATIONS FOR TOILETROOM NO. 1; TOILETROOM NO. 2 REVERSED
SCALE: 3/8" = 1'-0"

DRA Project #
2524.GVVC

dave robinson architects
4525 Wasatch Blvd., Suite 301
Salt Lake City, Utah 84124
801-272-0242

State of Utah
Department of Administrative Services
Division of Facilities - Construction & Management
4110 State Office Building
Salt Lake City, Utah 84114
Phone: (801) 538 - 3018
Fax: (801) 538 - 3267
Internet: http://dfcm.utah.gov

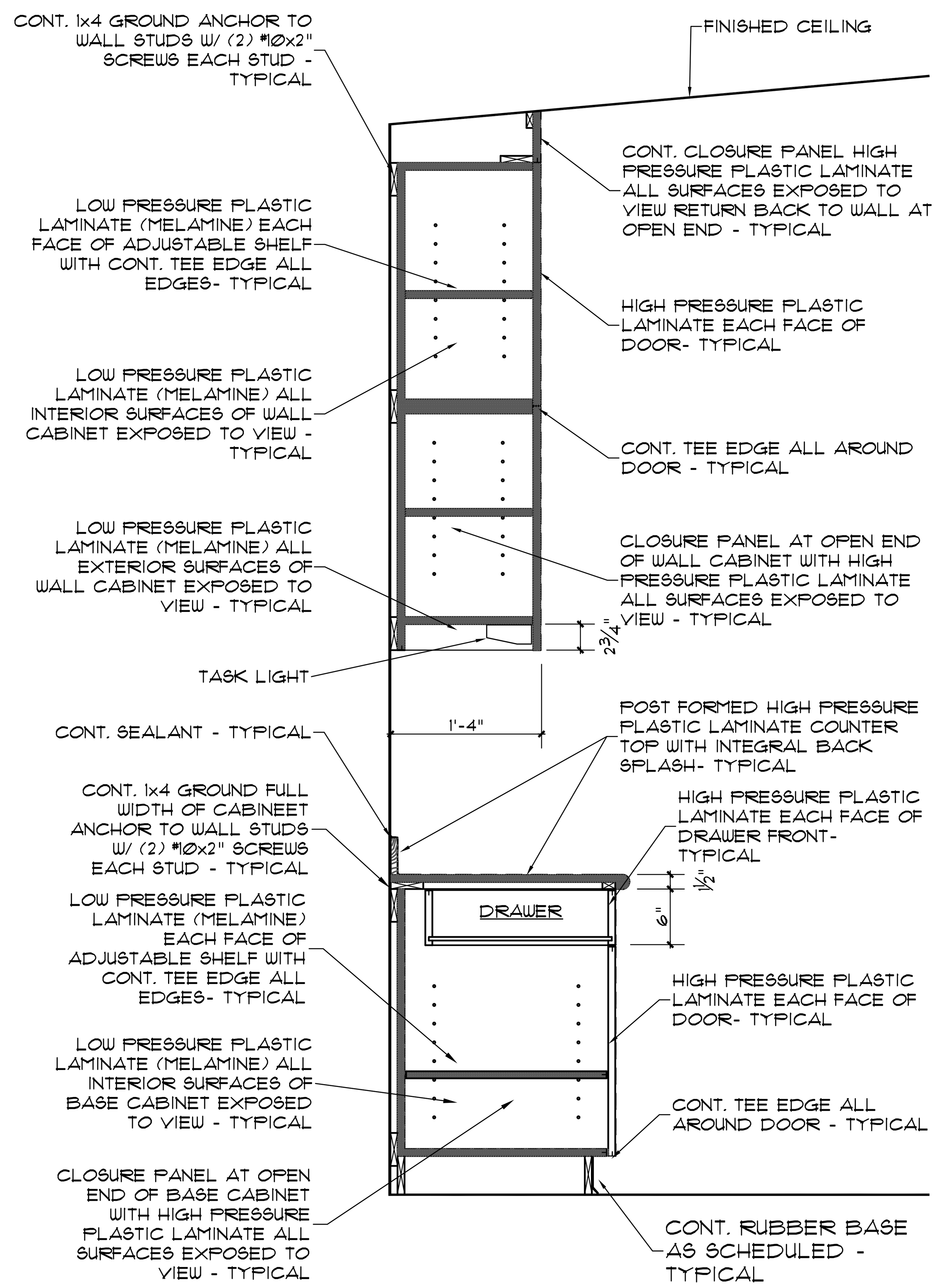
NEW VISITORS CENTER for GOBLIN VALLEY STATE PARK

UTAH STATE DIVISION OF FACILITIES AND CONSTRUCTION MANAGEMENT

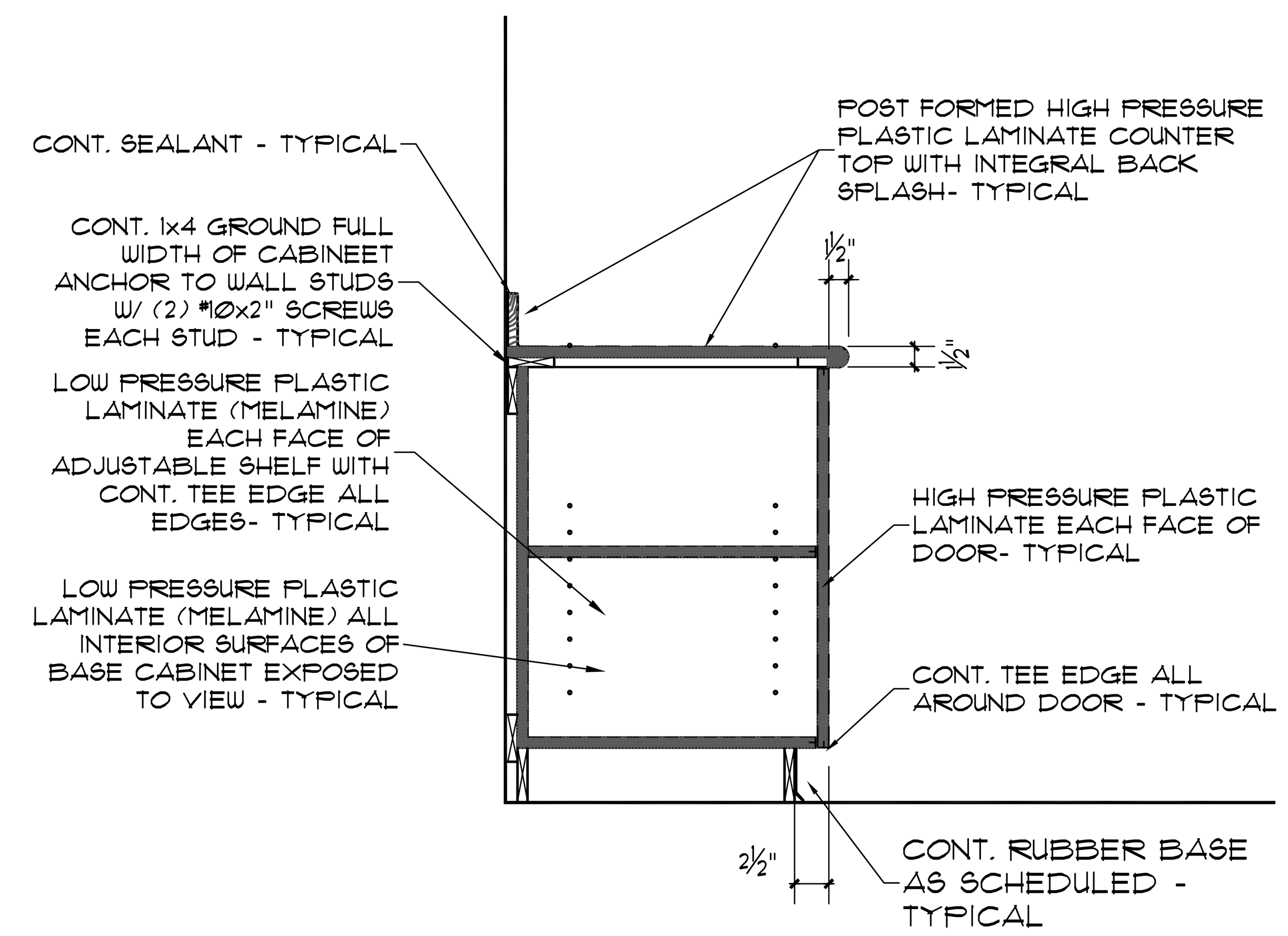
Revisions	
Date	Item

12-29-05

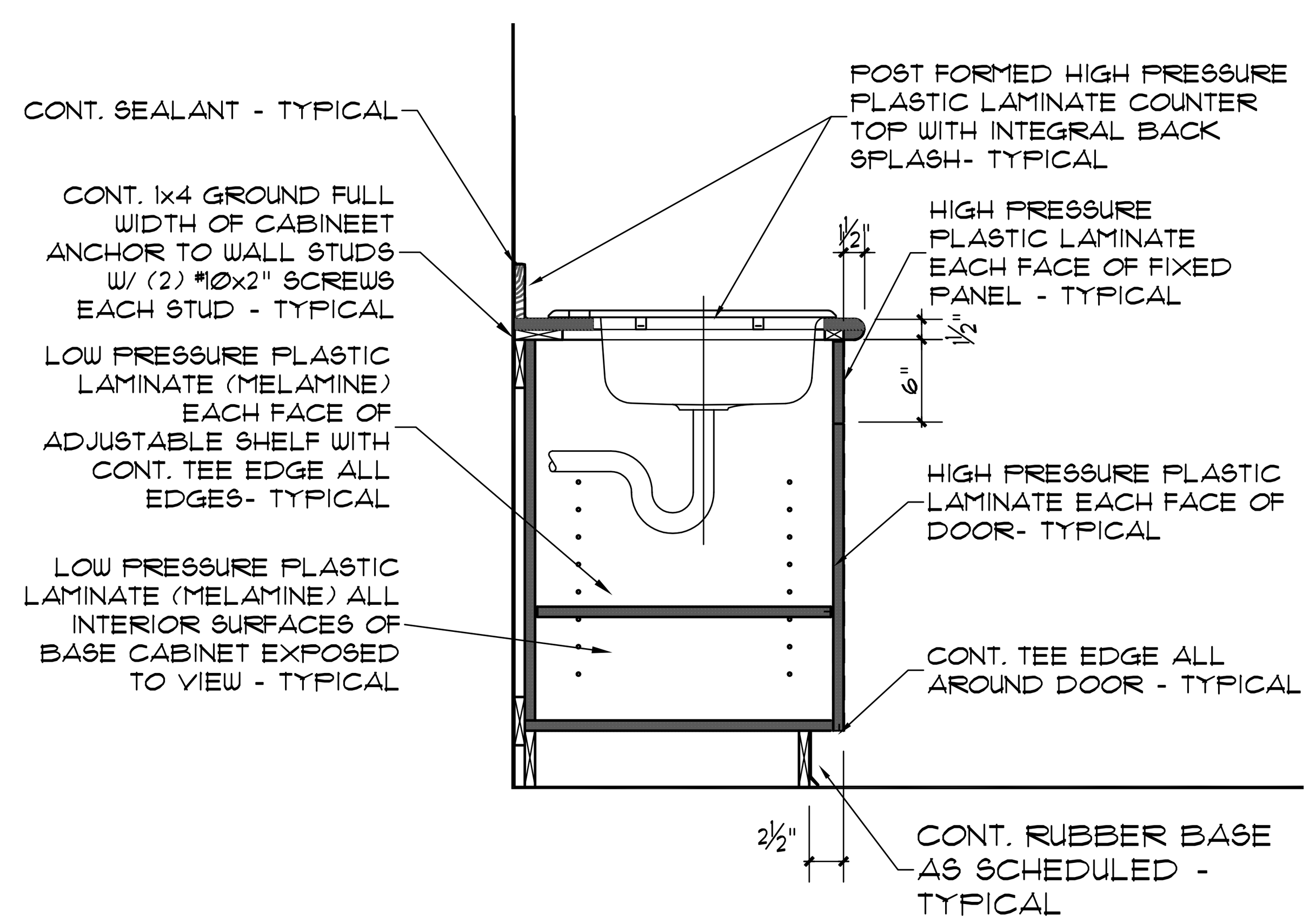
GOBLIN VALLEY
A-401
2524.GVVC



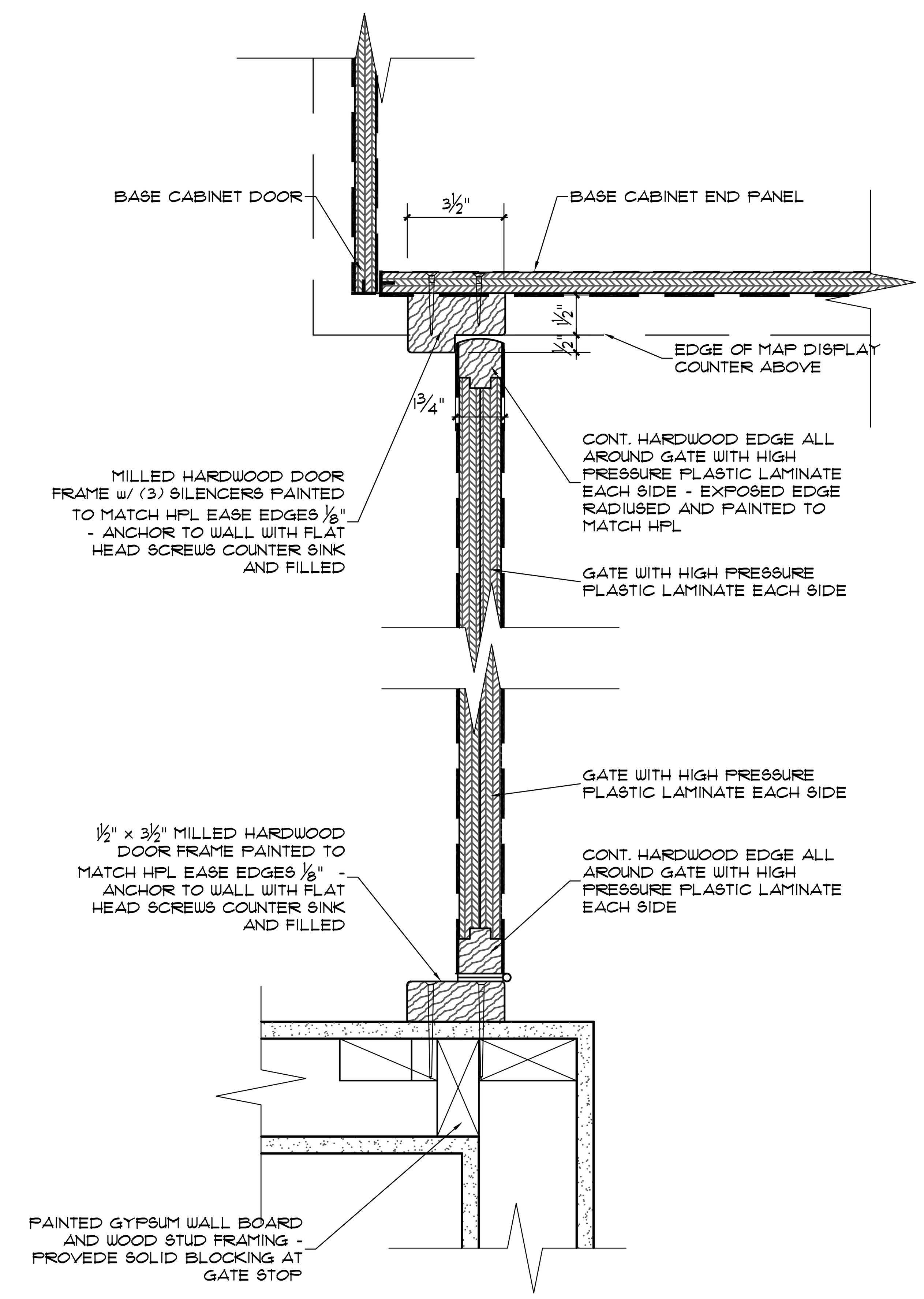
ADDITIVE ALTERNATE #C
C1 / A-402 OFFICE CABINET SECTION
SCALE: 1" = 1'-0"



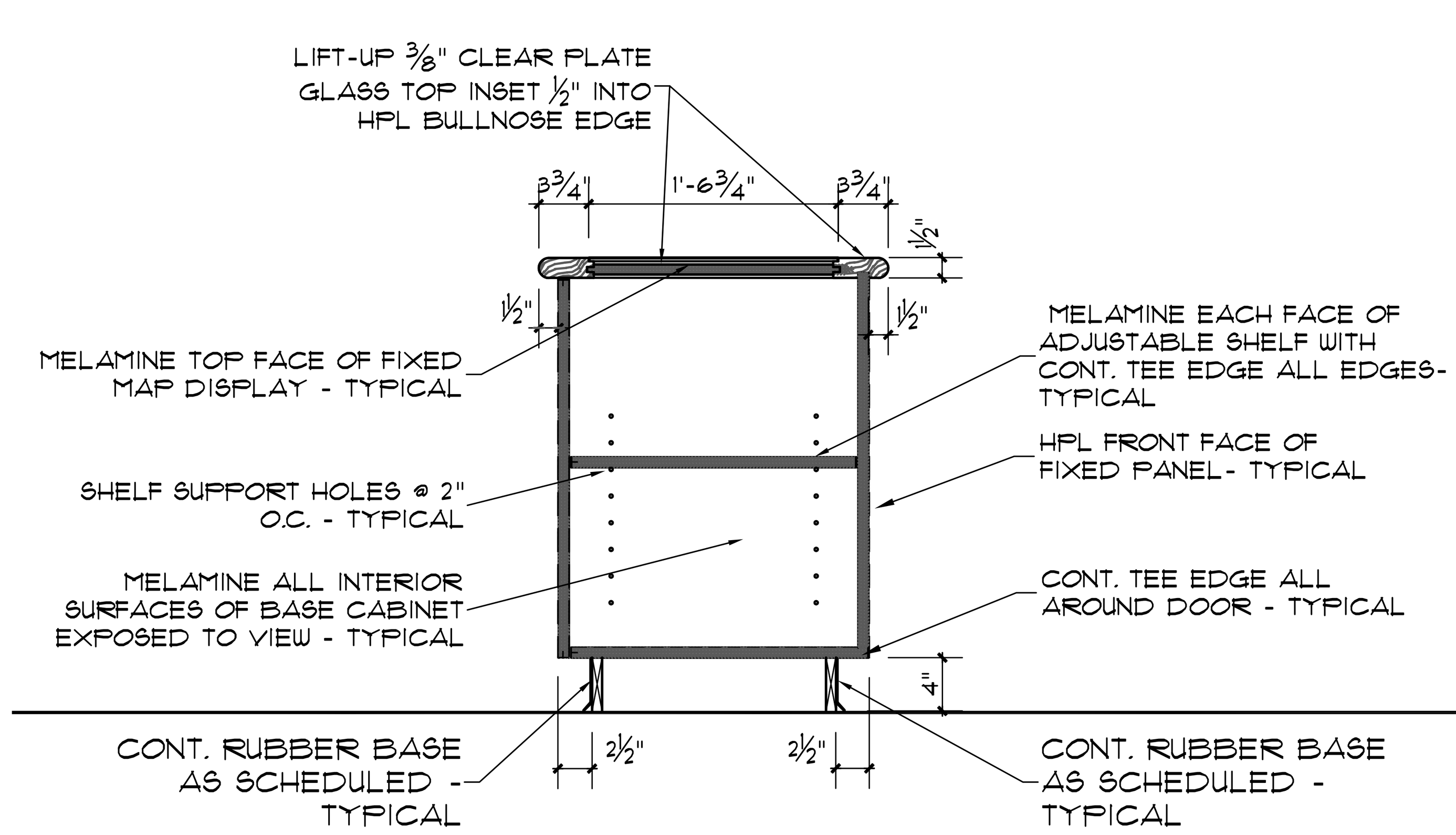
ADDITIVE ALTERNATE #C
A4 / A-402 OFFICE CABINET SECTION
SCALE: 1" = 1'-0"



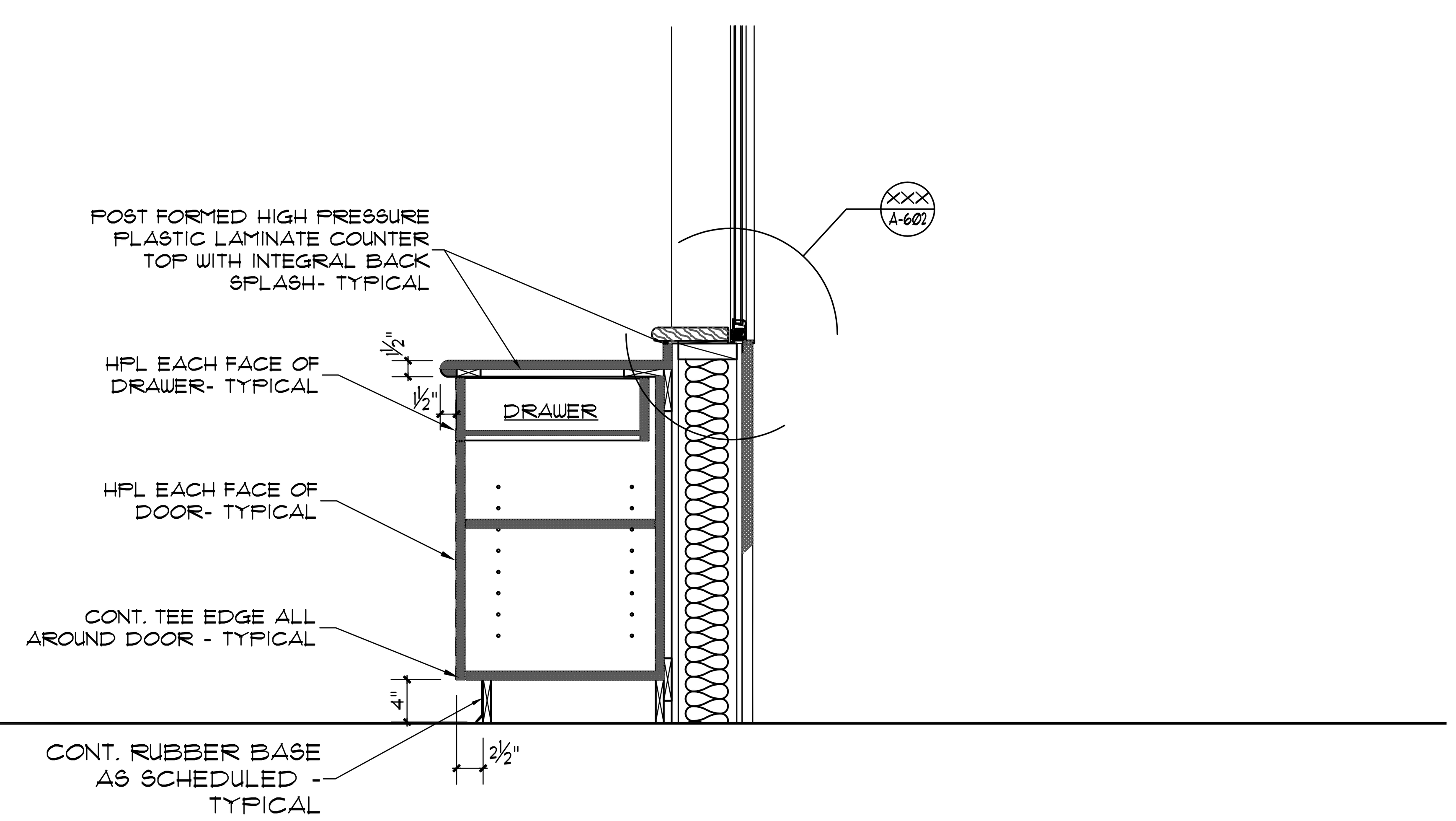
ADDITIVE ALTERNATE #C
C4 / A-402 OFFICE CABINET SECTION
SCALE: 1" = 1'-0"



C6 / A-402 GATE DETAIL
SCALE: 3" = 1'-0"



D1 / A-402 SALES / MAP DISPLAY CABINET SECTION
SCALE: 1" = 1'-0"



D4 / A-402 SALES CABINET SECTION
SCALE: 1" = 1'-0"

DRA Project #
2524.GVVC

dave robinson architects
4525 Wasatch Blvd., Suite 301
Salt Lake City, Utah 84124
801-272-0242

State of Utah
Department of Administrative Services
Division of Facilities - Construction & Management
4110 State Office Building
Salt Lake City, Utah 84114
Phone: (801) 538 - 3018
Fax: (801) 538 - 3267
Internet: http://dfcm.utah.gov

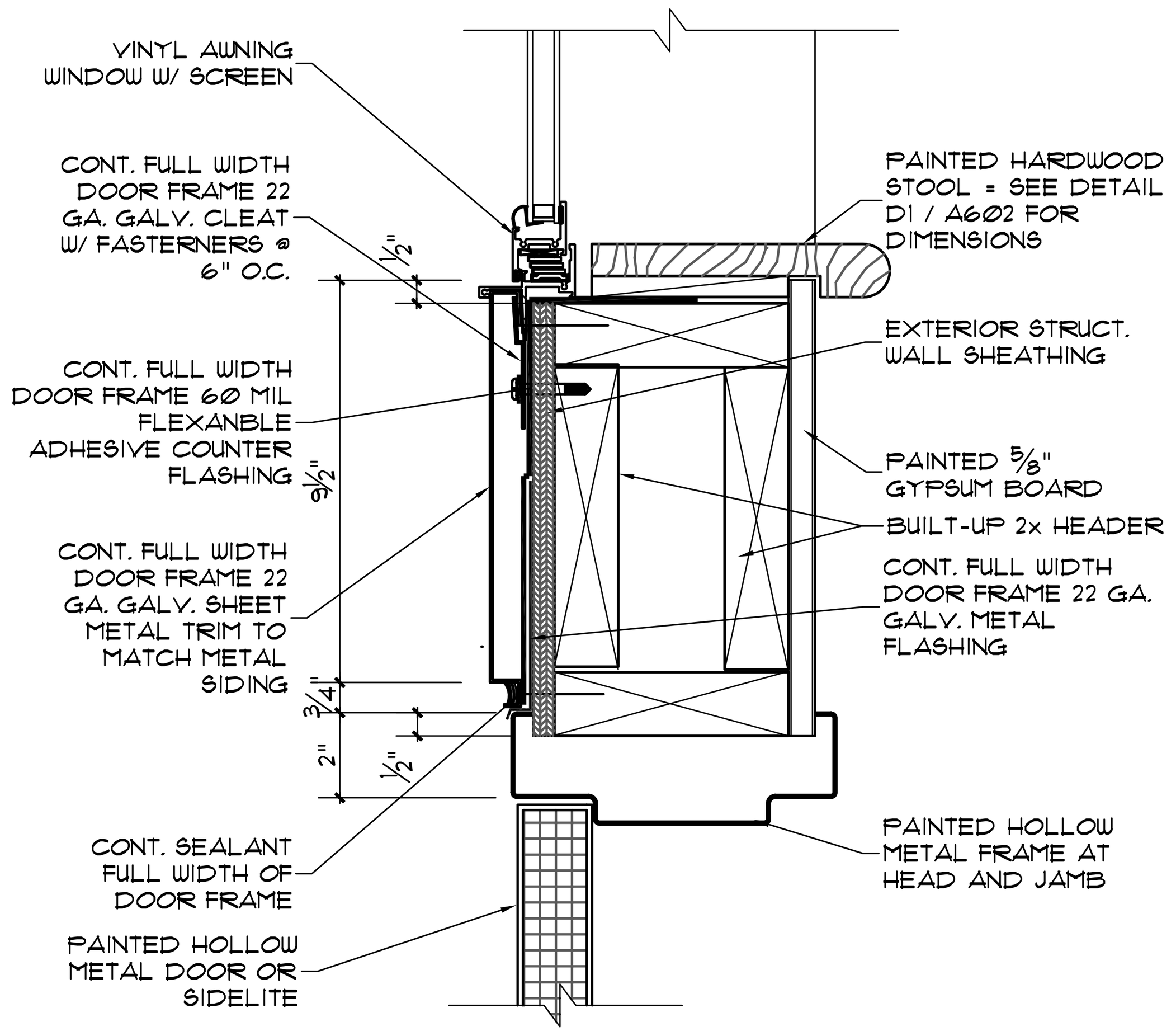
NEW VISITORS CENTER for GOBLIN VALLEY STATE PARK

UTAH STATE DIVISION OF FACILITIES AND CONSTRUCTION MANAGEMENT

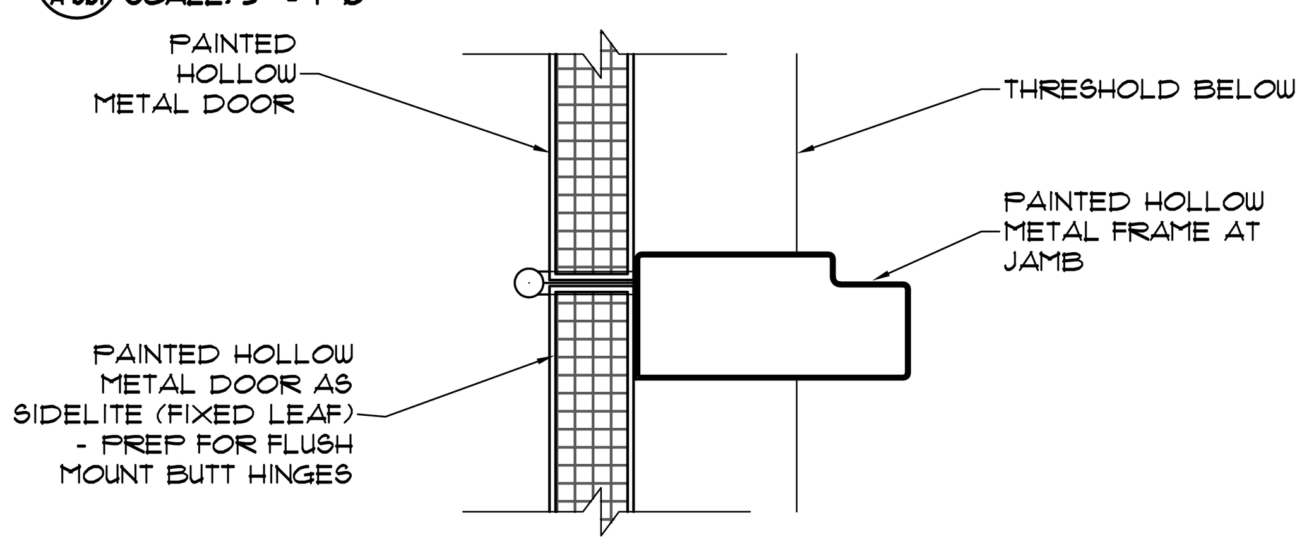
Revisions	
Date	Item

12-29-05

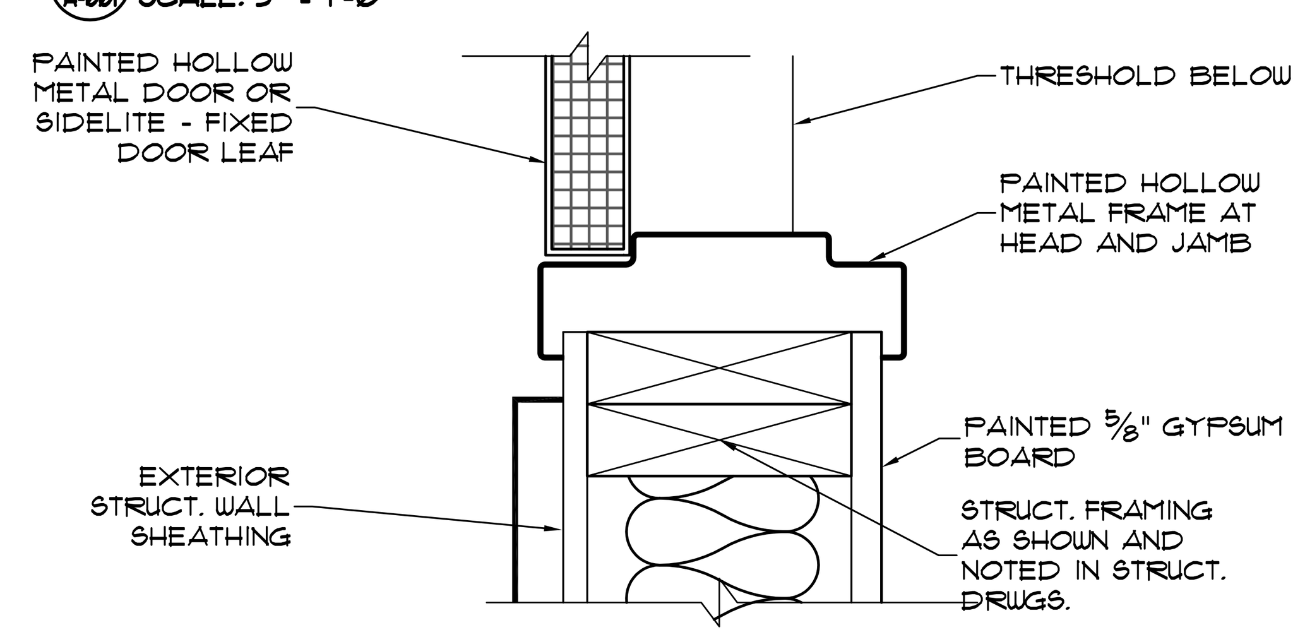
GOBLIN VALLEY
A-402
2524.GVVC



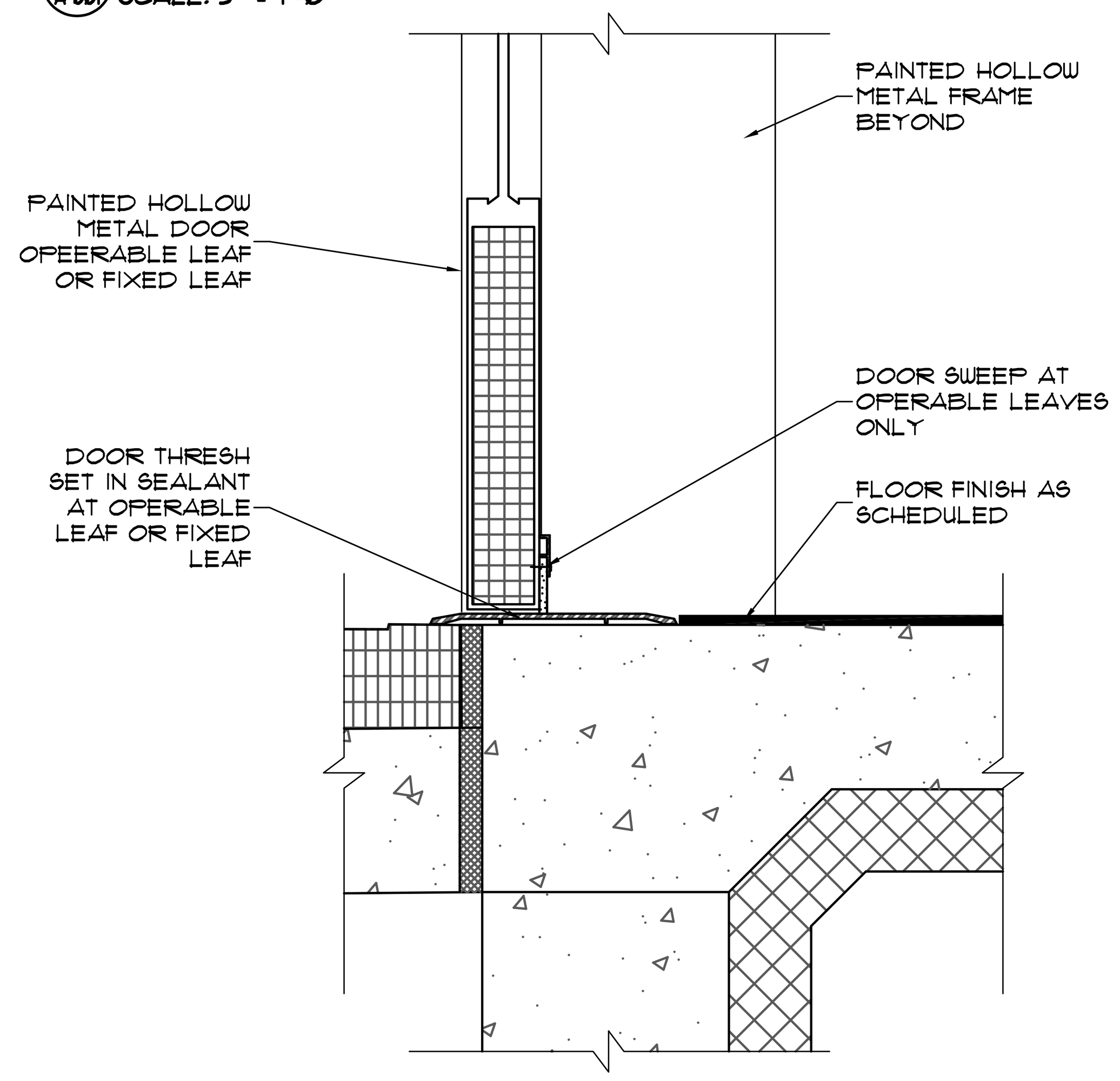
A1/A-601 DOOR & SIDELITE HEAD / WINDOW SILL DETAIL
SCALE: 3" = 1'-0"



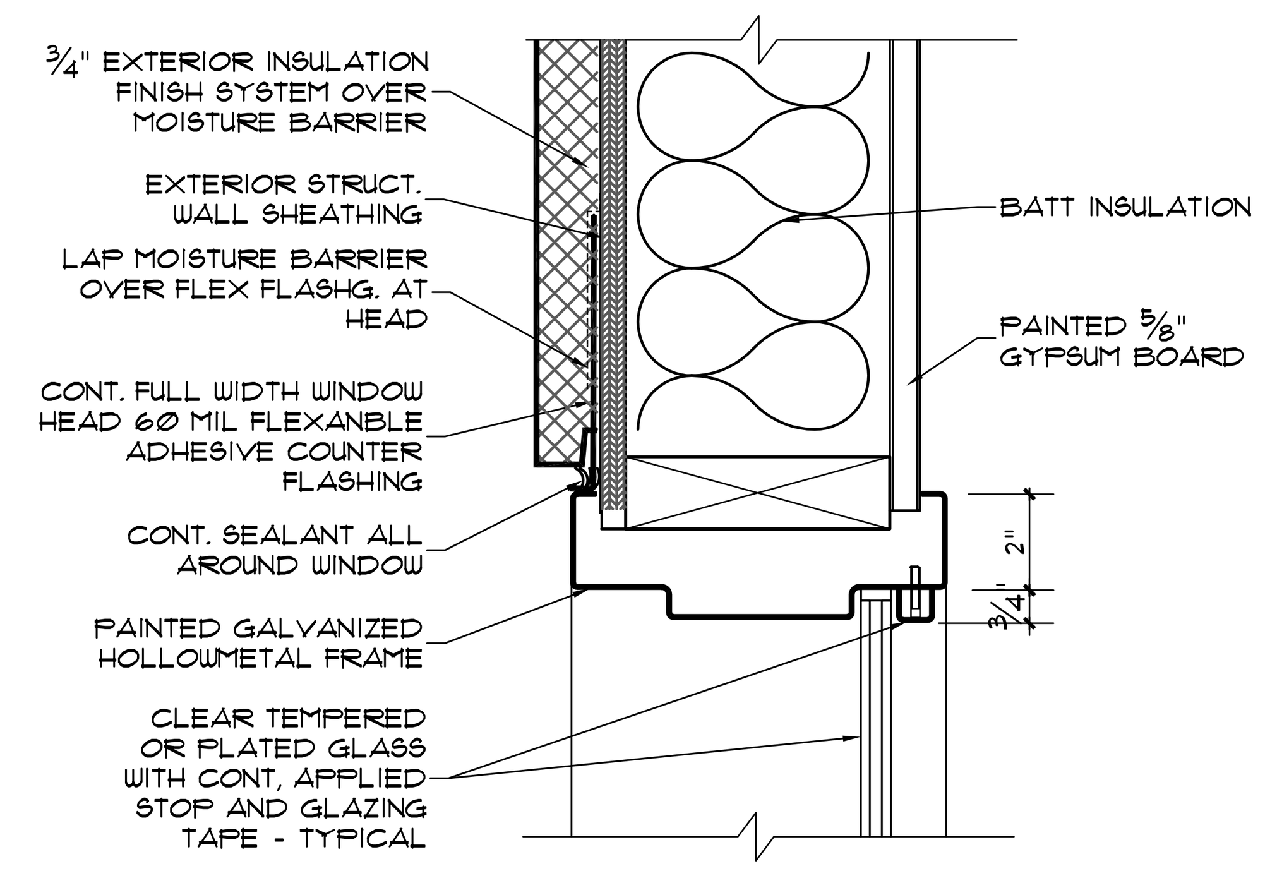
B1/A-601 DOOR & SIDELITE JAMB DETAIL
SCALE: 3" = 1'-0"



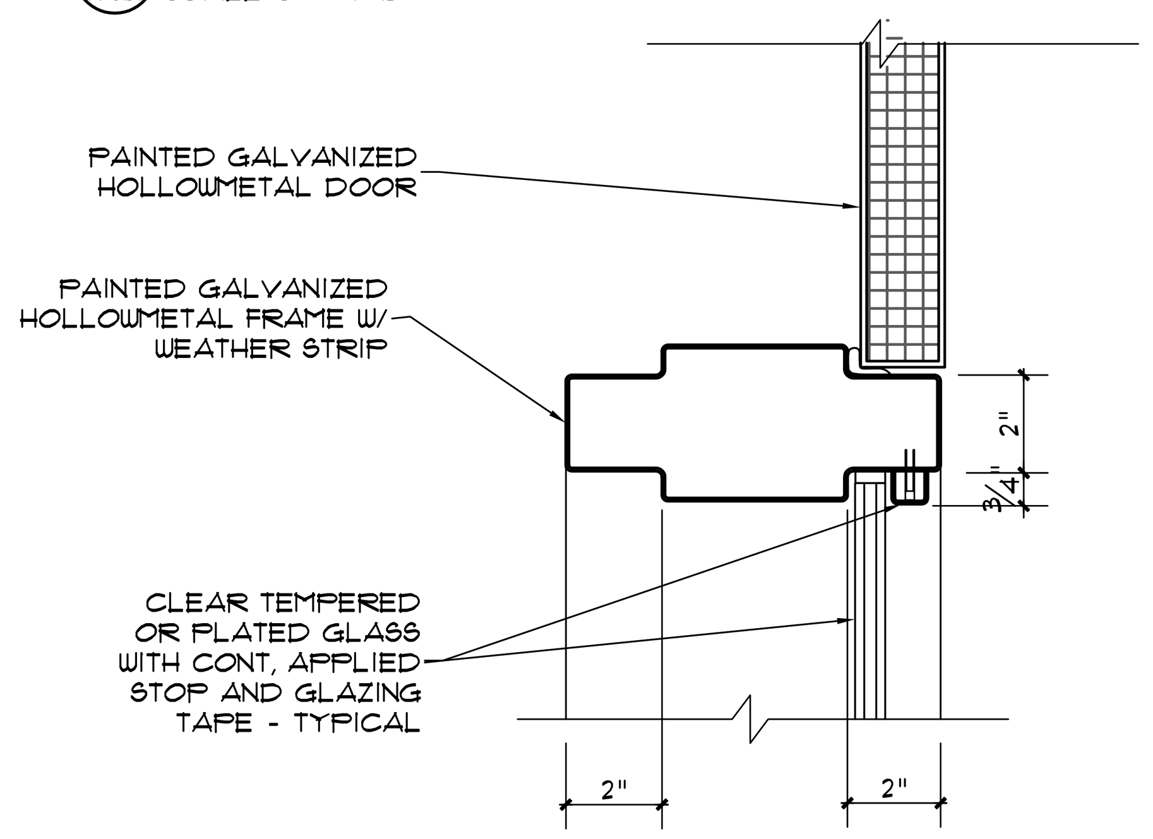
C1/A-601 DOOR & SIDELITE JAMB DETAIL
SCALE: 3" = 1'-0"



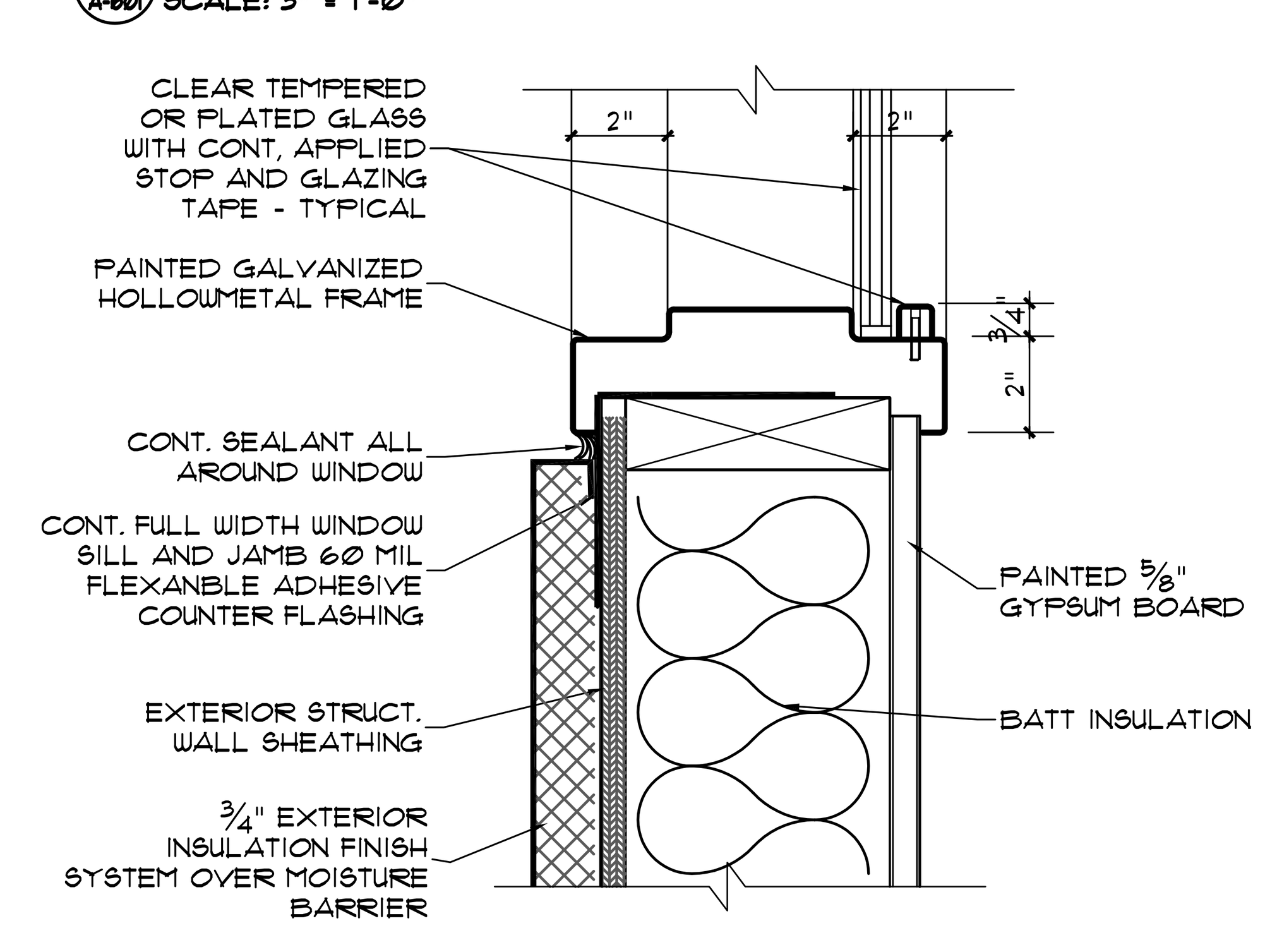
D1/A-601 DOOR & SIDELITE THRESHOLD DETAIL
SCALE: 3" = 1'-0"



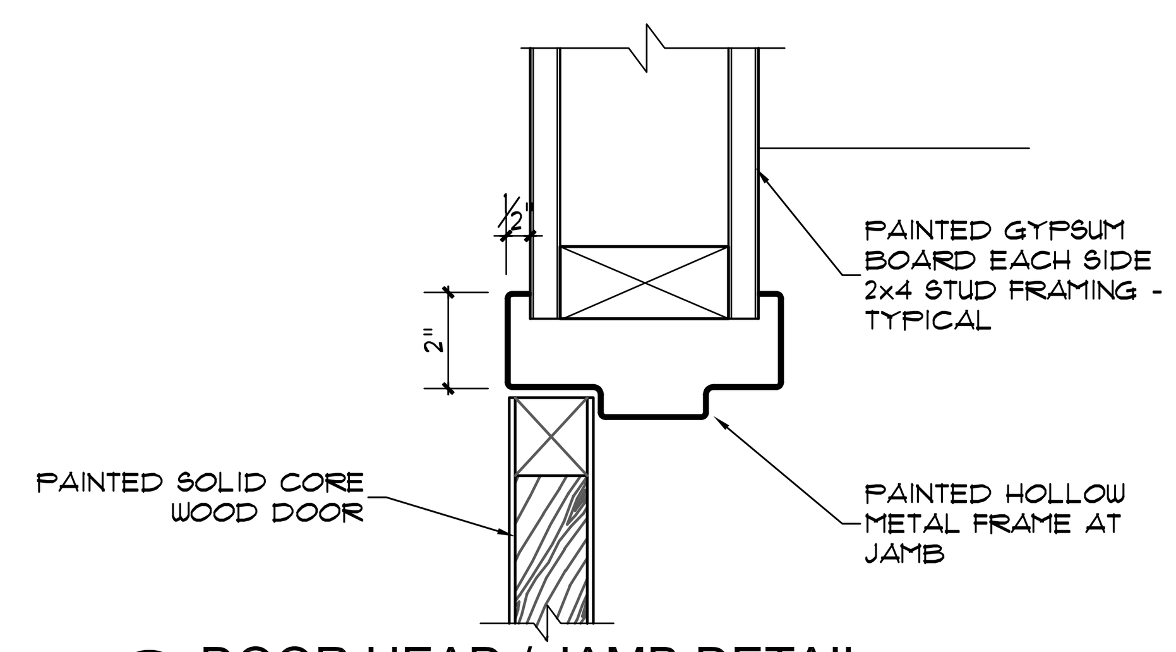
A2/A-601 WINDOW HEAD DETAIL
SCALE: 3" = 1'-0"



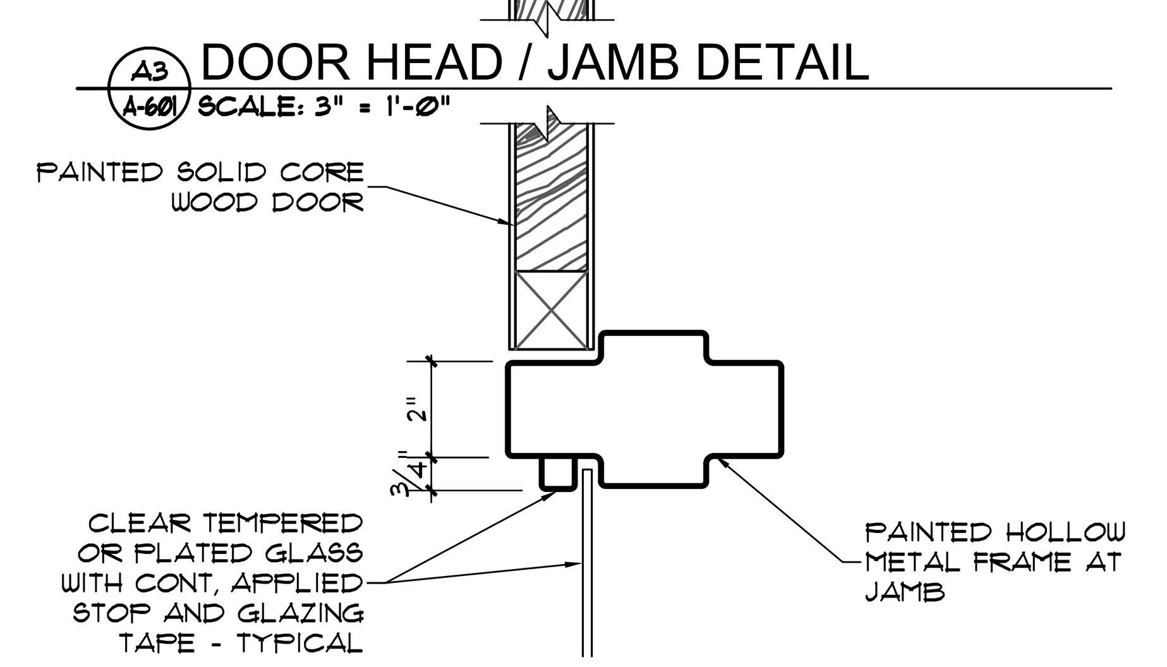
C2/A-601 DOOR AND WINDOW JAMB DETAIL
SCALE: 3" = 1'-0"



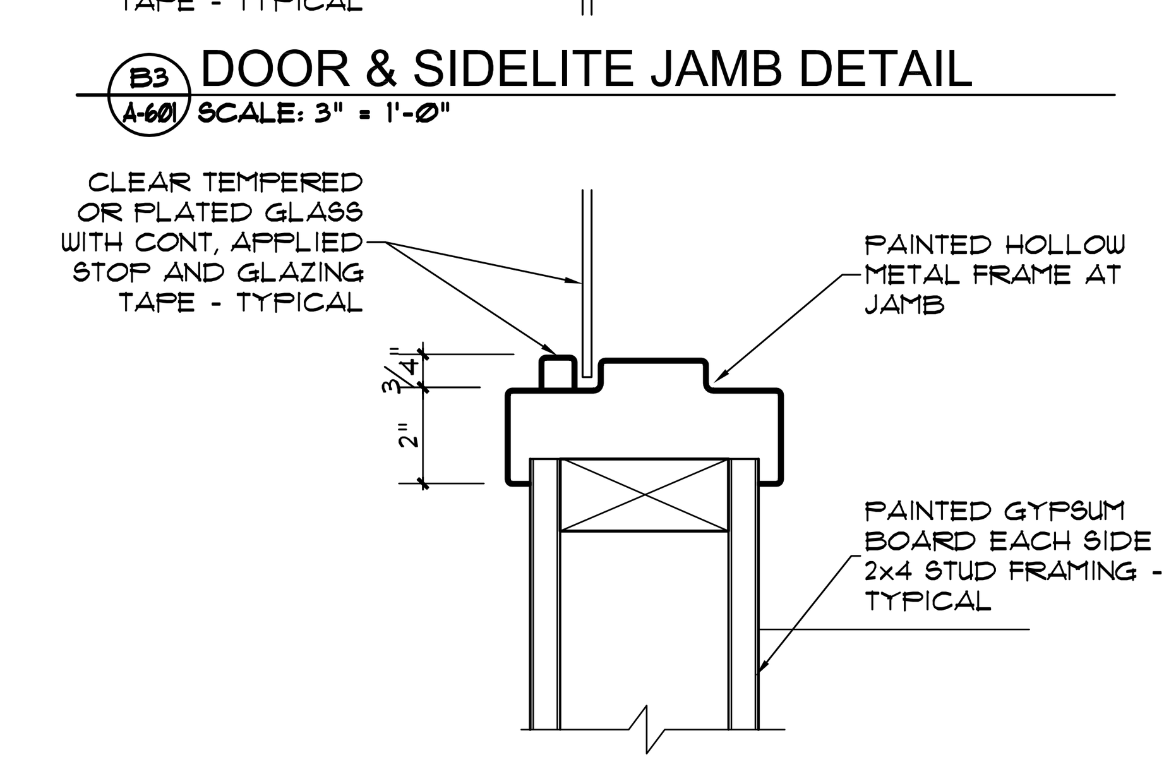
D2/A-601 WINDOW SILL DETAIL
SCALE: 3" = 1'-0"



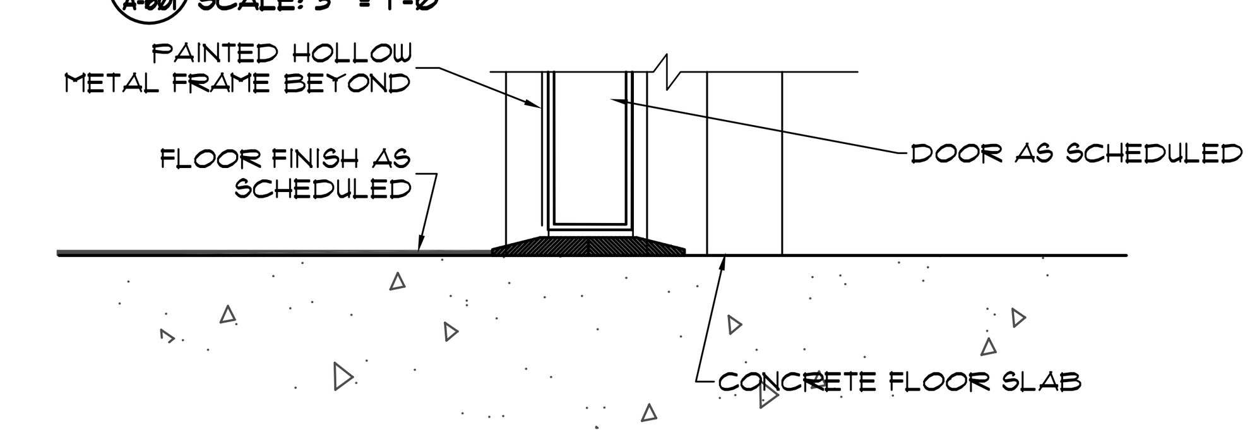
A3/A-601 DOOR HEAD / JAMB DETAIL
SCALE: 3" = 1'-0"



B3/A-601 DOOR & SIDELITE JAMB DETAIL
SCALE: 3" = 1'-0"



C3/A-601 SIDELITE SILL DETAIL
SCALE: 3" = 1'-0"



D3/A-601 DOOR THRESHOLD DETAIL
SCALE: 3" = 1'-0"

DOOR SCHEDULE

NUMBER	DOOR SIZE	FIRE RATING IN MINUTES	FRAME TYPE	FRAME FINISH	DOOR TYPE	DOOR FINISH	DETAILS HEAD	DETAILS JAMB	DETAILS THRESH	HARDWARE	THRESHOLD	REMARKS
100	6'-0" x 7'-0"	--	C	PAINT	C	PAINT	A1/A-601	A1/A-601 B1/A-601	D1/A-601	1	●	
101A	3-0" x 7'-0"	--	D	PAINT	D	PAINT	C1 SIM/A-601	C2/A-601 C1/A-601	D1 SIM/A-601	2	●	DUTCH
101	2'-4" x 3'-0"	--	--	PAINT	--	PLASTIC LAMINATE	--	C6/A-601	--	6		TWO-WAY GATE AS SHOWN CABINET ELEV. SHT. A-401
102	3'-0" x 7'-0"	--	E	PAINT	A	STAIN	A3/A-601	A3/A-601 B3/A-601	D3/A-601	5		
103	3'-0" x 7'-0"	--	A	PAINT	B	STAIN	A3/A-601	A3/A-601	D3/A-601	5		
104	3'-0" x 7'-0"	--	A	PAINT	D	PAINT	C1/A-601	C1/A-601	D1/A-601	3	●	
105	3'-0" x 7'-0"	--	A	PAINT	D	PAINT	C1/A-601	C1/A-601	D1/A-601	4	●	
106	3'-0" x 7'-0"	--	A	PAINT	D	PAINT	C1/A-601	C1/A-601	D1/A-601	3	●	

HARDWARE GROUPS

GROUP 1 - ENTRANCE DOORS
- 2 LOCKSET-SCHLAGE A70PD OLYMPIAD 625
- 1 DEADBOLT - SCHLAGE B160N 625
- 4 PAIR BUTTS - HAGER BB1191 4 1/2" x 4 1/2" NRP
- 2 AUTOMATIC CONCEALED FLUSH BOLTS WITH CO-ORDINAYORS
- 2 EXIT DEVICES - VON DUPRIN SERIES 35
- 2 CLOSERS - RUSSWIN PR9120
- 2 KICK PLATE - 10" x 34"
- 2 PCS. JAMB WEATHER STRIPPING - 84" EA.
- 1 PC. HEAD WEATHER STRIPPING - 72"
- 1 THRESHOLD - 72" + 36"
- 6 SILENCERS - IVES #20
- 2 DOOR SWEEP

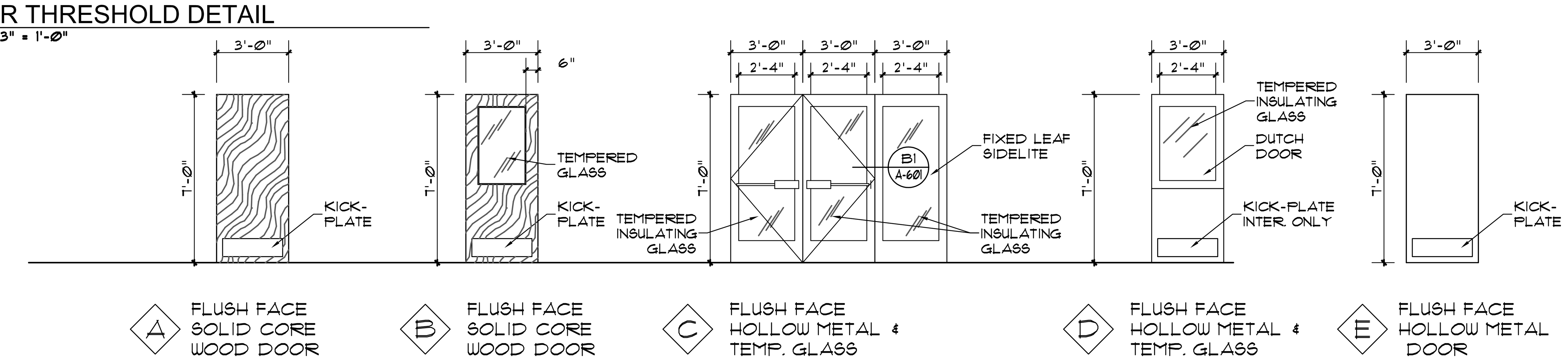
GROUP 2 - DUTCH DOOR
- 1 LOCKSET-SCHLAGE A70PD OLYMPIAD 625
- 2 DEADBOLT - SCHLAGE B160N 625
- 2 PAIR BUTTS - HAGER BB1191 4 1/2" x 4 1/2" NRP
- 1 KICK PLATE - 10" x 34"
- 2 PCS. JAMB WEATHER STRIPPING - 84" EA.
- 2 PC. HEAD WEATHER STRIPPING - 36"
- 1 THRESHOLD - 36"
- 3 SILENCERS - IVES #20
- 1 DOOR SWEEP

GROUP 3 - TOILETROOM DOOR
- 1 LOCKSET - SCHLAGE D170, RHOADS 625
- 1 CLOSER - RUSSWIN PR9120
- 2 PAIR BUTTS - HAGER AB750, 625
- 3 SILENCERS
- 1 WALL STOP - IVES 407 1/2, 625

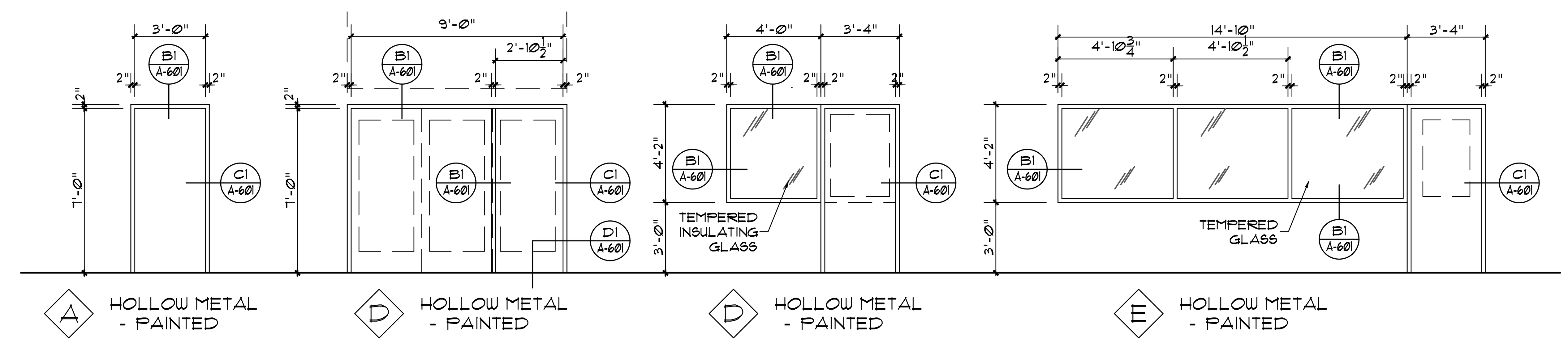
GROUP 4 - MECHANICAL ROOM DOOR
- 1 LOCKSET - SCHLAGE D170, RHOADS 625
- 2 PAIR BUTTS - HAGER AB750, 625
- 3 SILENCERS
- 1 WALL STOP - IVES 407 1/2, 625

GROUP 5 - OFFICE DOORS
- 1 LOCKSET - SCHLAGE A70PD OLYMPIAD 625
- 2 PAIR BUTTS - HAGER AB750, 625
- 3 SILENCERS
- 1 WALL STOP - IVES 407 1/2, 625

GROUP 6 - CABINET GATE
- 2 PAIR DOUBLE ACTING SPRING HINGES - BOMMER 3000 SERIES, #3029-3



DOOR TYPES



DOOR FRAME TYPES

DRA Project # 2524.GVVC

dave robinson architects
4525 Wasatch Blvd., Suite 301
Salt Lake City, Utah 84124
801-272-0242

State of Utah
Department of Administrative Services
Division of Facilities - Construction & Management
4110 State Office Building
Salt Lake City, Utah 84114
Phone: (801) 538 - 3018
Fax: (801) 538 - 3267
Internet: http://dfcm.utah.gov

NEW VISITORS CENTER for GOBLIN VALLEY STATE PARK

UTAH STATE DIVISION OF FACILITIES AND CONSTRUCTION MANAGEMENT

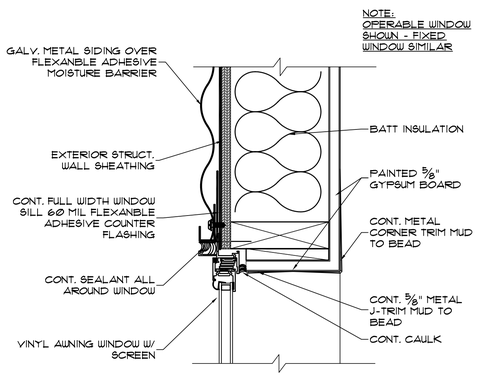
Revisions	
Date	Item

12-29-05

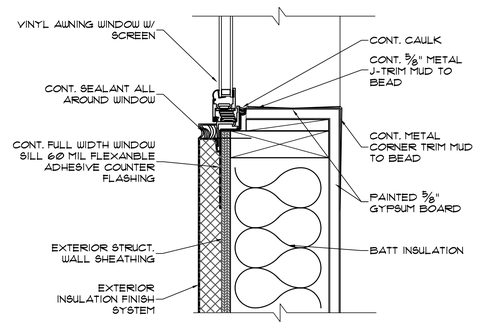
GOBLIN VALLEY
A-601
2524.GVVC

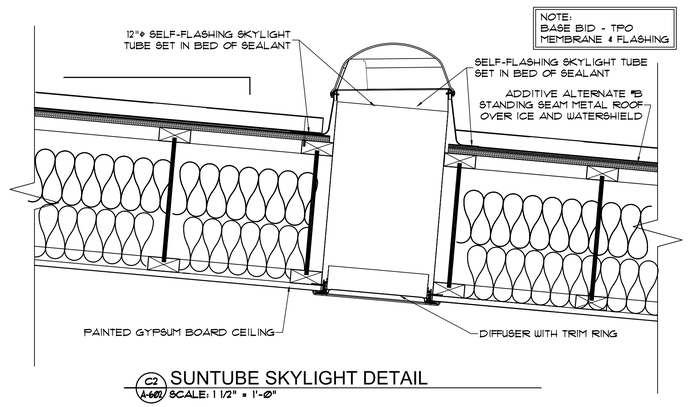
ROOM FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FLOOR				BASE				NORTH WALL					EAST WALL					SOUTH WALL					WEST WALL					CEILING				
		CONCRETE - SEALED	CARPET	VCT	CONCRETE - STAMPED	6" RUBBER BASE	4" RUBBER BASE			PAINTED GYPSUM WALL BOARD	EXPOSED FRAMING	FRP BOARD - 48" HIGH	PAINTED WATER RESISTANT GYPSUM WALL BOARD		PAINTED GYPSUM WALL BOARD	EXPOSED FRAMING	FRP BOARD - 48" HIGH	PAINTED WATER RESISTANT GYPSUM WALL BOARD		PAINTED GYPSUM WALL BOARD		FRP BOARD - 48" HIGH	PAINTED WATER RESISTANT GYPSUM WALL BOARD		PAINTED GYPSUM WALL BOARD	EXPOSED FRAMING	FRP BOARD - 48" HIGH	PAINTED WATER RESISTANT GYPSUM WALL BOARD		PAINTED GYPSUM CEILING BOARD	PAINTED WATER RESISTANT GYPSUM CEILING BOARD		HEIGHT	REMARKS
100	DISPLAY AND SALES				●		●			●					●					●										●			VARIES	
101	PASS & SALES COUNTER				●		●			●					●					●					●					●			VARIES	PARTIAL 8'-0" CEILING
102	OFFICE NO. 1		●				●			●					●					●					●					●			VARIES	
103	OFFICE NO. 2	●	●				●			●					●					●					●					●			VARIES	
104	TOILETROOM NO. 1			●		●						●	●				●	●				●	●				●	●			●		VARIES	
105	JANITOR / MECHANICAL RM.	●				●						●	●					●					●					●					VARIES	
106	TOILETROOM NO. 2			●		●						●	●				●	●				●	●				●	●			●		VARIES	



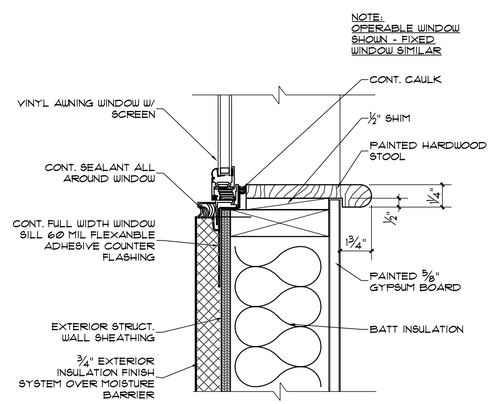
A1 WINDOW JAMB DETAIL - HEAD SIMILAR
1-602 SCALE: 3" = 1'-0"



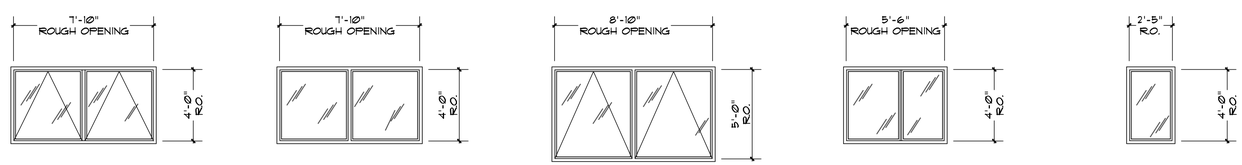


C2 SUNTUBE SKYLIGHT DETAIL
1-602 SCALE: 1 1/2" = 1'-0"

C1 WINDOW JAMB DETAIL - HEAD SIMILAR
1-602 SCALE: 3" = 1'-0"



D1 WINDOW SILL DETAIL
1-602 SCALE: 3" = 1'-0"



W01 VINYL - AWNING SASH
W02 VINYL - FIXED SASH
W03 VINYL - AWNING SASH
W04 VINYL - FIXED SASH
W05 VINYL - FIXED SASH

WINDOW TYPES

NOTE:
FOR OPERABLE WINDOWS PROVIDE EYELET TYPE OPERATOR IN LIEU OF CRANK AND 48" EXTENSION WAND

DRA Project # 2524.GVVC

dave robinson architects
4525 Wasatch Blvd., Suite 301
Salt Lake City, Utah 84124 801-272-0242

State of Utah
Department of Administrative Services
Division of Facilities - Construction & Management
4110 State Office Building
Salt Lake City, Utah 84114
Phone: (801) 538 - 3018
Fax: (801) 538 - 3267
Internet: http://dfcm.utah.gov

NEW VISITORS CENTER for GOBLIN VALLEY STATE PARK
UTAH STATE DIVISION OF FACILITIES AND CONSTRUCTION MANAGEMENT

Revisions	
Date	Item
12-29-05	

GOBLIN VALLEY
A-602
2524.GVVC

GENERAL STRUCTURAL NOTES

GENERAL

1. The structural notes are intended to complement the project specifications. Specific notes and details in the drawings shall govern over the structural notes and typical details.
2. Typical details and sections shall apply where specific details are not shown.
3. The contractor shall verify all site conditions and dimensions. If actual conditions differ from those shown in the contract drawings, the contractor shall immediately notify the architect/engineer before proceeding with the fabrication or construction of any effected elements.
4. Omissions or conflicts between the contract drawings and/or specifications shall be brought to the attention of the architect/engineer before proceeding with any work involved. In case of conflict, follow the most stringent requirement as directed by the architect/engineer at no additional cost to the owner.
5. The contractor shall submit a written request to the architect/engineer before proceeding with any changes, substitutions or modifications. Any work done by the contractor before receiving written approval will be at the contractor's risk.
6. The contractor shall coordinate with all trades any items that are to be integrated into the structural system such as openings, penetrations, mechanical and electrical equipment, etc. Sizes and locations of mechanical and other equipment that differs from those shown on the contract drawings shall be reported to the architect/engineer.
7. The contractor shall provide adequate shoring and bracing as required for his method of erection. Shoring and bracing shall remain in place until final connections for the permanent members are completed. The building shall not be considered stable until all connections are completed. Walls shall not be considered self-supporting and shall be braced until the floor/roof system is completed.
8. Site observations by BHB Consulting Engineers, P.C.'s field representative shall not be construed as approval of construction procedures nor special inspection.
9. Detailing and shop drawing production for structural elements will require information (including dimensions) contained in the architectural, structural and/or other consultants' drawings. The structural drawings shall be used in conjunction with the architectural and other consultant's drawings. Some dimensions and elements such as elevations, depressions, slopes, mechanical housekeeping pads, etc. are not shown in the structural drawings. All dimensions shown on structural drawings shall be verified by contractor with architectural, mechanical and electrical drawings.
10. Review of shop drawing submittals by BHB Consulting Engineers, P.C. is for general compliance only and is not intended for approval. The shop drawing review shall not relieve the contractor from the responsibility of completing the project according to the contract documents.
11. Shop drawings made from reproductions of the contract drawings will be rejected unless the contractor signs a release agreement prior to the shop drawings being reviewed.
12. Only an authorized representative of BHB Consulting Engineers, P.C. may make changes to these contract drawings. BHB Consulting Engineers, P.C. shall not be held responsible or liable for any claims arising directly or indirectly from changes made without written authorization by an authorized representative of BHB Consulting Engineers, P.C.

BASIS OF DESIGN

1. Governing Building Code — International Building Code 2003
2. Roof Snow Load
   a. Ground Snow Load — $P_g = 43$ psf
   b. Snow Importance Factor — $I_s = 1.0$
   c. Snow Exposure Coefficient — $C_e = 1.0$
   d. Thermal Exposure Coefficient — $C_t = 1.0$
   e. Roof Snow Load — $P_f = 0.7 {}^* C_e {}^* C_t {}^* I_s {}^* P_g = 30$ psf plus Snow Drift
3. Seismic Loads
   a. Short Period Mapped Spectral Acceleration — $S_S = 0.35$
   b. Soil Site Class — D
   c. Short Period Site Coefficient — $F_a = 1.52$
   d. 5% Damped Design Spectral Response Acceleration — $S_{DS} = 2/3 {}^* F_a {}^* S_S$
   e. Seismic Importance Factor — $I_e = 1.00$
   f. Response Modification Coefficient — R = 6.5
   g. Seismic Response Coefficient — $C_s = S_{DS} {}^* I_e / R$
   h. W — Dead Loads of Structure
   i. Building Seismic Design Category — D
   j. System Overstrength Factor — 3
   k. Deflection Amplification Factor — 4
   l. Base Shear — $V = C_S {}^* W = 0.055$ W (Strength Design)
4. Wind Loads
   a. Wind Velocity (3 Second Gust) — 90 mph
   b. Exposure Type — C
   c. Wind Importance Factor — 1.00

FOUNDATION

1. Soils Investigation Report: None
2. Soil bearing pressure: 1500 psf - Assumed by owner.
3. Frost Protection: 30 inches minimum.
4. Clear excavations of debris and loose soil prior to placing footings. All footings shall bear on undisturbed natural sub-grade or engineered compacted fill extending down to suitable material.

EARTHWORK

1. The allowable soil bearing pressure of 1500 psf shall be verified by the contractor at the time of construction.

CONCRETE

1. Materials, unless noted otherwise:
   a. Normal weight aggregates — ASTM C 33
   b. Reinforcing Steel — ASTM 615 Grade 60 (Fy = 60 ksi). Use Grade 40 (Fy = 40 ksi) for field bent dowels with spacings indicated reduced by 1/3.
   c. Deformed Bar Anchors (DBA) — ASTM A496
   d. Headed Stud Anchors (HSA) — ASTM A108
   e. Anchor Rods — ASTM F1554 Grade 36 with ASTM A563 heavy hex nuts with hardened washers
   f. Admixtures:
      i. Air-entraining admixtures comply with ASTM C 260 (when used).
      ii Calcium chloride shall not be added to the concrete mix.
   g. Type V cement complying with ASTM C-150 shall be used for all concrete.
   h. The water/cement ratios shall meet the requirements of ACI 318.
   i. Provide air entraining as recommended by ACI 318.
   j. No aluminum conduit or product containing aluminum or any other material injurious to concrete shall be embedded in concrete.
2. Compressive strengths of concrete at 28 days shall be as follows:
   a. Footings and Foundations .... 4,000 psi
   b. Interior Slabs on Grade .... 4,000 psi
   c. All Site Concrete .... 4,000 psi
3. Only one grade or type of concrete shall be poured on the site at any given time.
4. The contractor shall be responsible for the design, detailing, care, placement and removal of all formwork and shores.
   a. Supporting forms and shoring shall not be removed until structural members have acquired sufficient strength to safely support their own weight and any construction load to which they may be subjected. In no case, however, shall forms and shoring be removed in less than 24 hours after concrete placement.
5. Reinforcement shall have the following concrete cover:
   Cast-in-place Concrete: .... Clear Cover
   a. Cast against and permanently exposed to earth......................... 3"
   b. Formed concrete exposed to earth or weather:
      #6 thru #18 bars .... 2"
      #5 and smaller bars... 1-1/2"
   c. Concrete not exposed to weather or in contact with ground:
      Slabs, Walls, Joists; #11 bars and smaller .... 3/4"
      Beams, Columns: Primary Reinf., Ties, Stirrups, Spirals .... 1-1/2"
6. Construction Joints and Control Joints:
   a. Provide a formed and beveled 2 x 4 x continuous keyway in all horizontal and vertical construction joints including between top of footing and foundation walls, unless noted otherwise. In addition, all joints shall be intentionally roughened to a full amplitude of approximately 1/4 inch.
   b. Control joints shall be installed in slabs on grade so the length to width ratio of the slab is no more than 1.25:1. Control joints shall be completed within 12 hours of concrete placement. Control joints may be installed by:
      i. Saw cut a depth of 1/4 the thickness of the slab
      ii. Tooled joints a depth of 1/4 the thickness of the slab
   c. Install construction or control joints in slabs on grade at a spacing not to exceed 30 times the slab thickness in any direction unless noted otherwise.

7Construction
   a. Use chairs or other support devices recommended by the CRSI to support and tie reinforcement bars and WWF prior to placing concrete. WWF shall be continuously supported at 36" o.c. maximum. Reinforcing steel for slabs on grade shall be adequately supported on precast concrete units. Lifting the reinforcing off the grade during placement of concrete is not permitted.
   b. Concrete to be mechanically consolidated during placement per ACI standards.
   c. Contractor shall coordinate placement of all openings, curbs, dowels, sleeves, conduits, bolts, inserts and other embedded items prior to concrete placement.
   d. All embeds and dowels shall be securely tied to formwork or to adjacent reinforcing prior to the placement of concrete.
   e. No pipes, ducts, sleeves, etc shall be placed in structural concrete unless specifically detailed or approved by the structural engineer. Penetrations through walls when approved shall be built into the wall prior to concrete placement. Penetrations will not be allowed in footings or grade beams unless detailed. Piping shall be routed around these elements and footings stepped to avoid piping.
   f. Reinforcing Bars shall not be welded. Do not substitute reinforcing bars for DBAs or HSAs.
8. Detailing:
   a. Lap lengths shall be as follows:
      i. 30 bar diameters for #3 and #4 bars
      ii. 40 bar diameters for #5 through #8 bars
      iii. Do not splice stirrups and ties.
      iv. Do not splice vertical bars in retaining walls unless specifically shown.
   b. At joints provide reinforcing dowels to match the member reinforcing, unless noted otherwise.
   c. At all discontinuous control or construction slab on grade joints, provide 2 - #4 x 48 inches.
   d. Provide corner bars at intersecting wall corners using the same bar size and spacing as the horizontal wall reinforcing.
   e. All vertical reinforcing shall be doweled to footings, or to the structure below with the same size and spacing as the vertical reinforcing for the element above. Dowels extending into footings shall terminate with a 90 degree standard hook and shall extend to within 4" of the bottom of the footing. Footing dowels (#8 bars and smaller) with hooks need not extend more than 20" into footings.
   f. Horizontal wall reinforcing shall terminate at ends of walls and openings into the far end of the jamb column with a 90-degree standard hook plus a 6 bar diameter extension. Horizontal wall reinforcing shall be continuous through construction and control joints.
   g. See detail 8/S-501for reinforcing around miscellaneous openings (8" to 36" wide). For openings wider than 36", contact the engineer. All recesses that interrupt reinforcing shall be reinforced the same as an opening.

EPOXY

1. Epoxy shall be "HIT RE 500 " by Hilti Corporation, "Anchor-It" by Adhesive Technology Corporation, "Epcon Injection System" by Ramset/Redhead, "Power-Fast" by Rawl, or approved equal.
2. All drilled holes shall be 1/8 inch larger than the bar or anchor bolt being installed.
3. After drilling the proper size hole, clean the walls and bottom of the hole of all dust and debris using a nylon brush in conjunction with oil free compressed air. The hole shall be free of dust, debris and standing water.
4. Follow all manufacturer's recommendations for epoxy installation.

STRUCTURAL STEEL

1. Material:
   a. Wide Flanges Section — ASTM A992 (50 ksi)
   b. Other shapes & Plates — ASTM A36
   c. Pipe Columns — ASTM A53, Types E or S, Grade B.
   d. Steel Tubes — ASTM A500 Grade B (46KSI)
   e. Deformed Bar Anchors (DBA) — ASTM A496
   f. Headed Stud Anchors (HSA) — ASTM A108
   g. Anchor Rods — ASTM F1554, Grade 36, with ASTM A563 heavy hex nuts and hardened washers Grade A
   h. Bolted Connections: — ASTM A325
2. Fabrication and construction shall comply with the latest edition of the following Codes and Standards:
   a. American Institute of Steel Construction (AISC), "Specification for the Design, Fabrication and Erection of Structural Steel for Buildings," with "Commentary".
   b. AISC "Code of Standard Practice" excluding the following: Section 3.4, Section 4.4, Section 4.4.1,
   c. AISC "Specification for Structural Joints Using ASTM A325 or A490 Bolts"
   d. American Welding Society (AWS), Structural Welding Code (specific items do not apply when they conflict with the AISC requirements).
   e. AISC "Seismic Provision for Structural Steel Buildings"
3. Welding
   a. All welding and cutting shall be performed by AWS certified welders.
   b. Use E-70 XX or as noted otherwise.
   c. All intersecting steel shapes which are not bolted shall be connected by a fillet weld all around, unless noted otherwise. Where fillet weld sizes are not shown they shall be 1/16" less than the thinnest of the connected parts for thicknesses 1/4" and larger. Fillet welds on plates less than 1/4" shall be of the same size as the thinnest of the connected part.
   d. Reinforcing Bars: Do not weld rebar. Do not substitute reinforcing bars for deformed bar anchors (DBAs), machine bolts, or headed stud anchors(HSAs).
   e. Do not weld anchor bolts, including "tack" welds.
   f. Headed Stud Anchors (HSAs) welding and deformed bar anchor welding shall conform to the manufacturer's specifications.
4. Bolted Connections:
   a. Use ASTM A325N bolts for steel to steel connections, as noted herein or as noted on the drawings. A325N bolts shall be used in connections for simple span framing and beam (or girder) to bearing plate connections. Tighten bolts to a snug tight condition.
   b. Use hardened washers beneath the turned element of all bolts or nuts. Use hardened beveled washers, to compensate for the lack of parallelism, where the outer face of the bolted parts has a slope greater than one in twenty with respect to the plane normal to the bolt axis. At oversized holes hardened washers or plates shall conform with ASTM F-436 and shall completely cover the slot after installation.
   c. Where a steel to steel beam connection is not shown, provide a standard AISC framed connection for one half the total uniform load capacity of the beam for the span and steel specified.
   d. Bolts, nuts and washers shall not be reused.
5. Provide full-depth web-stiffener plates at each side of all beams at all bearing points. Stiffener plates shall be the thickness called out below unless noted otherwise and shall be welded both sides with fillet welds all around:

FLANGE WIDTH	STIFFENER THICKNESS	WELD SIZE
Less than 8 1/4"	1/4"	3/16"
8 1/4" to 12 1/4"	3/8"	1/4"
12 1/4" to 16 ½"	1/2"	5/16"
16 ½" to 20 ¾"	5/8"	3/8"

WOOD

1. Materials:
   a. Framing Lumber shall be # 2 Douglas Fir-Larch or better unless noted otherwise.
   b. Wood sheathing shall be interior grade with exterior glue, span index ratio, unless noted otherwise,
      24/0 — Walls (7/16 inch thick)
      48/24 — Roof (19/32 inch thick)
   c. Nails: Standard Common with the following properties:

Nail Size	Shank Diameter	Min. Penetration into Support Member
6d	0.113"	1.25"
8d	0.131"	1.50"
10d	0.148"	1.63"
12d	0.148"	1.63"
16d	0.162"	1.75"

   Fasteners other than common nails are not permitted without prior written approval from the engineer.
   d. Bolts shall be ASTM A36 or equal with ASTM A563 heavy hex nuts and hardened washers, Grade A, unless noted otherwise.
   e. All laminated veneer lumber (LVL) shall be Versa-Lam by Boise Cascade Corporation.
   f. All pre-fabricated wood joists shall be BCI as manufactured by Boise Cascade Corp. All required blocking bridging and bracing shall be provided by joist manufacturer and installed by contractor. All penetrations through the joists shall be done per manufacturers' recommendations and requirements.
2. All wood in contact with concrete, masonry or soil shall be pressure treated or be redwood.
3. General framing and carpentry shall be connected as per "Minimum Nailing Schedule" on sheet S- 601 unless noted otherwise.
4. All framing anchors, post caps, hold downs, column bases, etc. shall be provided by Simpson Strong-Tie or approved equal.
5. Provide solid shaped blocking at least 2 in.(nominal) thick and full depth of joist at ends and at each support of joist. Provide approved bridging at a 8'-0" o.c. maximum between joist end supports. Solid blocking between joists shall be nailed to the wood plate at the top of the wall with one Simpson "A35" framing anchor per each piece of blocking. Fill all holes in the framing anchors with 8-d x 1-1/2" nails (12 nails per A35).
6. Built-up beams of 2X-member 12 in. or less in depth shall be spiked together with not less than 16-d spikes at twelve-inch (12 in.) centers, staggered. If the depth of beam is more than twelve inches (12 in.), the members shall be connected together with 1/2" Ø bolts @ 24 in. o.c. staggered. Bolts shall be placed 1/4 the depth of the member from the top and bottom of the member.
7. All walls shall have a minimum of two top plates. Splices in top plates shall be staggered a minimum of four feet from the nearest splice in adjoining top plate.

SPECIAL INSPECTION AND QUALITY ASSURANCE

Special inspection and quality assurance, as required by section 1704 of the IBC, shall be provided by an independent agency employed by the owner unless waived by the building official. The contractor shall coordinate and cooperate with the required inspections. All testing and inspection reports shall be sent to the engineer for review. Items requiring special inspection and quality assurance are:

1. Soils (IBC 1704.7)
   a. Special inspection shall be provided prior to pouring concrete footings.
   b. Special inspection shall be provided prior to placement of fill and during placement of fill.
   c. See specifications for required soil special inspection.
2. Concrete placement (IBC Section 1704.4)
   a. Continuous special inspection shall be provided
3. Bolts installed in concrete (IBC Section 1704.4)
   a. All bolts shall be inspected prior to and during concrete placement.
4. Concrete reinforcing steel placement (IBC Section 1704.4)
   a. Reinforcing shall be inspected prior to concrete placement.
5. Structural welding (IBC 1704.3)
   a. Periodic special inspection of single pass fillet welds less than or equal to 5/16"
   b. Continuous special inspection of single pass fillet welds greater than 5/16" and multi-pass fillet welds.
   c. Continuous special inspection of complete and partial penetration welds.
6. Wood diaphragms (IBC Section 1706.10)
7. Epoxy Anchors (IBC Section 1704.13)
   a. Special inspection shall verify all drilled holes' size and depth prior to installation of epoxy and anchor rod.

DEFERRED SUBMITTALS

For the purpose of this section, deferred submittals are defined as per section 106.3.4.2 of the IBC. Submittal documents for deferred submittal items shall be submitted to the engineer/architect for their review for general conformance with the design of the building. Deferred structural submittals for this project are:

1. None

LEGEND OF MARKS AND ABREVIATIONS

AB	ANCHOR BOLT(S)	JT	JOINT
ABV	ABOVE	JST	JOIST
ALT	ALTERNATE		
APPROX	APPROXIMATE	k	KIP(S) = 1000 POUNDS
ARCH	ARCHITECT(URAL)	KLF	KIPS PER LINEAL FOOT
		KSF	KIPS PER SQUARE FOOT
BLDG	BUILDING		
BLW	BELOW	LBS	POUNDS
BM	BEAM	LF	LINEAL FOOT
BOT	BOTTOM	LLH	LONG LEG HORIZONTAL
BRG	BEARING	LLV	LONG LEG VERTICAL
BTWN	BETWEEN	LSV	LONG SIDE VERTICAL
CC.	CENTER-TO CENTER	MAX	MAXIMUM
C.J.	CONST/CONTROL JOINT	MCJ	MASONRY CONTROL JOINT
COL	COLUMN	MC-x	MASONRY COLUMN MARK
CONC	CONCRETE	MECH	MECHANICAL
CONST	CONSTRUCTION	MFR	MANUFACTURER
CTR	CENTER	MIN	MINIMUM
CW-x	CONCRETE WALL	MISC	MISCELLANEOUS
DB	DECK BEARING	NIC	NOT IN CONTRACT
DBA	DEFORMED BAR ANCHOR	NTS	NOT TO SCALE
DBE	DECK BEARING ELEVATION		
DBL	DOUBLE	O.C.	ON CENTER
DET	DETAIL	O.F.	OUTSIDE FACE
DIA	DIAMETER	OPNG	OPENING
DIM	DIMENSION	OPP	OPPOSITE
DN	DOWN		
DWG	DRAWING	PCF	POUNDS PER CUBIC FOOT
DWL	DOWEL	PL	PLATE
		PLF	POUNDS PER LINEAL FOOT
EA	EACH	PSF	POUNDS PER SQUARE FOOT
E.F.	EACH FACE	PSI	POUNDS PER SQUARE INCH
ELEC	ELECTRICAL	PT	POINT
ELEV	ELEVATION		
EQUIP	EQUIPMENT	REINF	REINFORCING
EQ	EQUAL	REQD	REQUIRED
E.W.	EACH WAY	R.D.	ROOF DRAIN
EXST	EXISTING	RTU	ROOF TOP UNITS
EXP	EXPANSION		
EXT	EXTERIOR	SHT	SHEET
		SI	SPECIAL INSPECTION
FC-x	CONTINUOUS FOOTING MARK	SIM	SIMILAR
F.D.	FLOOR DRAIN	SMU	SUSPENDED MECHANICAL UNITS
FDN	FOUNDATION	SOG	SLAB-ON-GRADE
F.F.	FINISHED FLOOR	SQ	SQUARE
FR-x	RECTANGULAR FOOTING MARK	STAG	STAGGERED
FS-x	SQUARE FOOTING MARK	STD	STANDARD
FT	FOOT	STL	STEEL
FTG	FOOTING	STR	STRUCTURAL
FTS-x	THICKEN SLAB MARK	STS	SELF TAPPING SCREWS
GA	GAUGE	T&B	TOP AND BOTTOM
GALV	GALVANIZED	TEMP	TEMPERATURE
GSN	GENERAL STRUCTURAL NOTES	THDS	THREADS
		T.O.	TOP OF
HB	HORIZONTAL BRIDGING	TOC	TOP OF CONCRETE
HORIZ	HORIZONTAL	TOD	TOP OF DECK
HSA	HEADED STUD ANCHOR	TOF	TOP OF FOOTING
HT	HEIGHT	TOW	TOP OF WALL
		TYP	TYPICAL
ICBO	INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS	UNO	UNLESS NOTED OTHERWISE
IBC	INTERNATIONAL BUILDING CODE		
I.F.	INSIDE FACE	VERT	VERTICAL
IN.	INCH		
INT	INTERIOR	W/	WITH

"Engineering Results"
BHB Consulting Engineers
A Professional Corporation
244 West 300 North
Suite 202
Salt Lake City, Utah 84103
Phone: 801.355.5656
Fax: 801.355.5950
Email: bhb@bhbengineers.com

BHB Project #
05203

dave robinson architects
4525 Wasatch Blvd., Suite 301
Salt Lake City, Utah 84124
801-272-0242

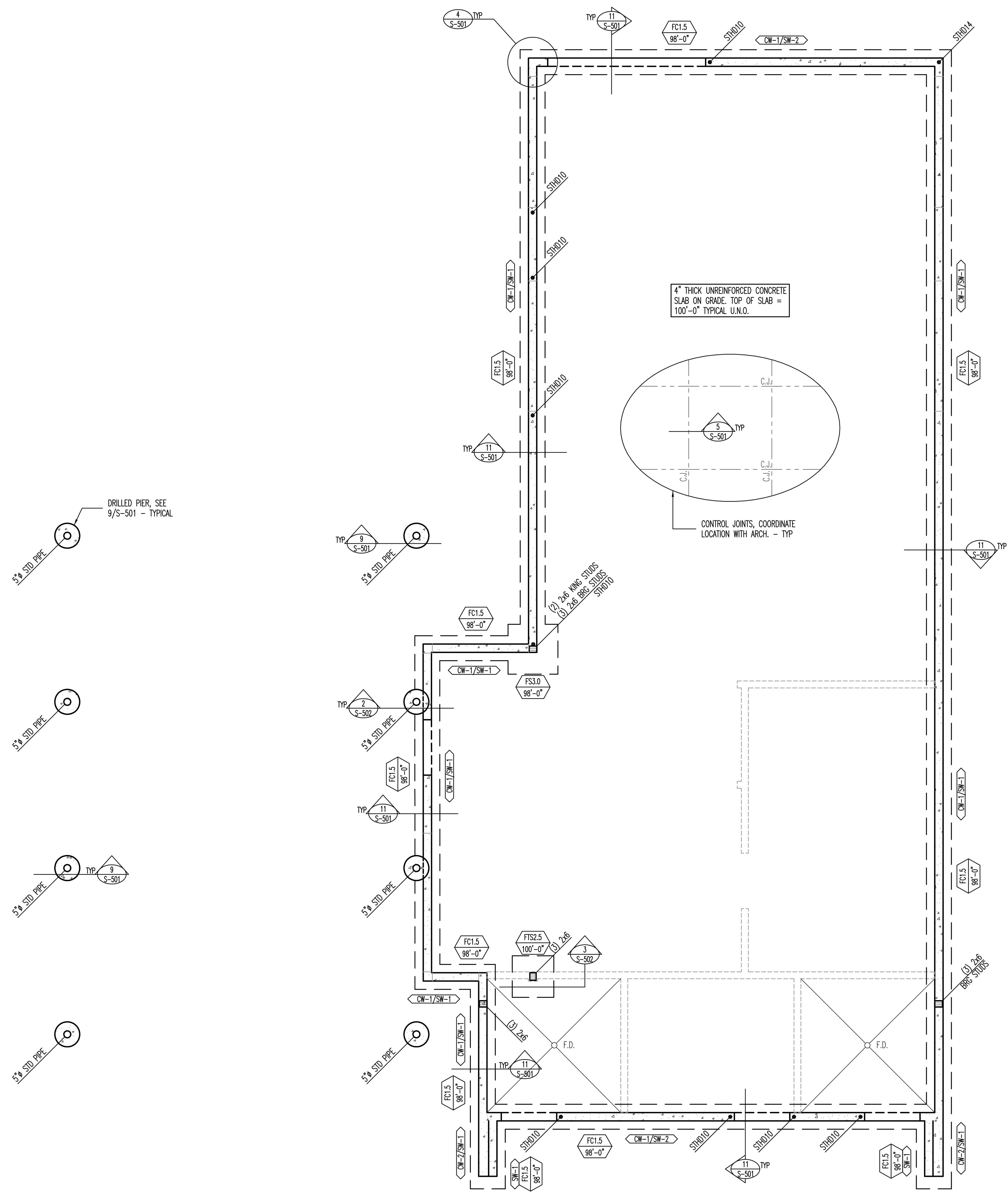
NEW VISITORS CENTER for
GOBLIN VALLEY STATE PARK

UTAH STATE DIVISION OF FACILITIES
AND CONSTRUCTION MANAGEMENT

Revisions	
Date	Item

11-29-05

GOBLIN VALLEY
S-001



FOOTING AND FOUNDATION PLAN

SCALE: 1/4"=1'-0"   0   4'   8'   16'

NORTH

WOOD_S-NOTE-FTGS

MARKS AND SYMBOLS LEGEND

- SECTION MARK / SHEET NUMBER
- FOOTING DESIGNATION / TOP OF FOOTING ELEVATION
- S——S INDICATES FOOTING STEP, SEE DETAIL 3/S-501.
- INDICATES CONCRETE WALL.
- INDICATES WOOD STUD WALL.
- DEPRESS FOUNDATION WALL AND POUR SLAB OVER. SEE DETAIL 11/S-501.
- CW-x INDICATES CONCRETE FOUNDATION WALL TYPE, SEE SCHEDULE ON SHEET S-601.
- SW-x INDICATES WOOD SHEARWALL TYPE, SEE SCHEDULE ON SHEET S-601.
- CW-x/SW-x INDICATES WOOD SHEARWALL (AND TYPE) OVER CONCRETE WALL (AND TYPE), SEE SCHEDULES ON SHEET S-601.
- FCxx INDICATES CONTINUOUS FOOTING. SEE SCHEDULE ON SHEET S-601.
- FSxx INDICATES SPOT FOOTING. SEE SCHEDULE ON SHEET S-601.
- FTSxx INDICATES THICKENED SLAB FOOTING. SEE SCHEDULE ON SHEET S-601.
- C.J. INDICATES CONTROL/CONSTRUCTION JOINT. SEE DETAIL 5/S-501.
- SC-x INDICATES STEEL COLUMN. SEE SCHEDULE ON SHEET S-601.

FOOTING AND FOUNDATION PLAN NOTES

1. COORDINATE LOCATION OF DEPRESSED SLABS, SLOPED SLABS, AND FLOOR DRAINS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
2. SEE ARCHITECTURAL AND CIVIL DRAWINGS FOR EXTERIOR CONCRETE WORK AT DOORS, SIDEWALKS, ETC.
3. SEE ARCHITECTURAL DRAWINGS FOR CONTROL JOINT LOCATIONS.
4. SEE "EARTHWORK" NOTES ON SHEET S-001 AND DETAIL 11/S-501 FOR MINIMUM FILL REQUIRED BENEATH FOOTINGS.
5. ALL SPOT FOOTINGS SHALL BE CENTERED UNDER COLUMNS (UNO).
6. SEE DETAILS 1/S-501 AND 2/S-501 FOR CONDITION WHERE BURIED PIPES RUN PARALLEL AND PERPENDICULAR TO FOOTINGS.
7. SEE DETAIL 5/S-501 FOR TYPICAL CONTROL/CONSTRUCTION JOINTS IN CONCRETE SLAB ON GRADE.
8. SEE DETAIL 7/S-501 FOR SLAB REINFORCING WHERE CONTROL JOINTS ARE DISCONTINUOUS.
9. SEE DETAIL 8/S-501 FOR ADDITIONAL REINFORCING AT MISCELLANEOUS OPENINGS IN CONCRETE WALLS.
10. SEE SHEET S-601 FOR HOLDOWN SCHEDULE.
11. SEE DETAIL 6/S-501 FOR TYPICAL SILL PLATE BOLTING DETAIL.
12. ALL EXTERIOR BEARING WALLS SHALL BE 2x6 STUDS AT 16" O.C. – TYPICAL (UNO).
13. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS TO ALL STEEL COLUMNS.

BHB Project # 05203

dave robinson architects
4525 Wasatch Blvd., Suite 301
Salt Lake City, Utah 84124
801-272-0242

NEW VISITORS CENTER for GOBLIN VALLEY STATE PARK

UTAH STATE DIVISION OF FACILITIES AND CONSTRUCTION MANAGEMENT

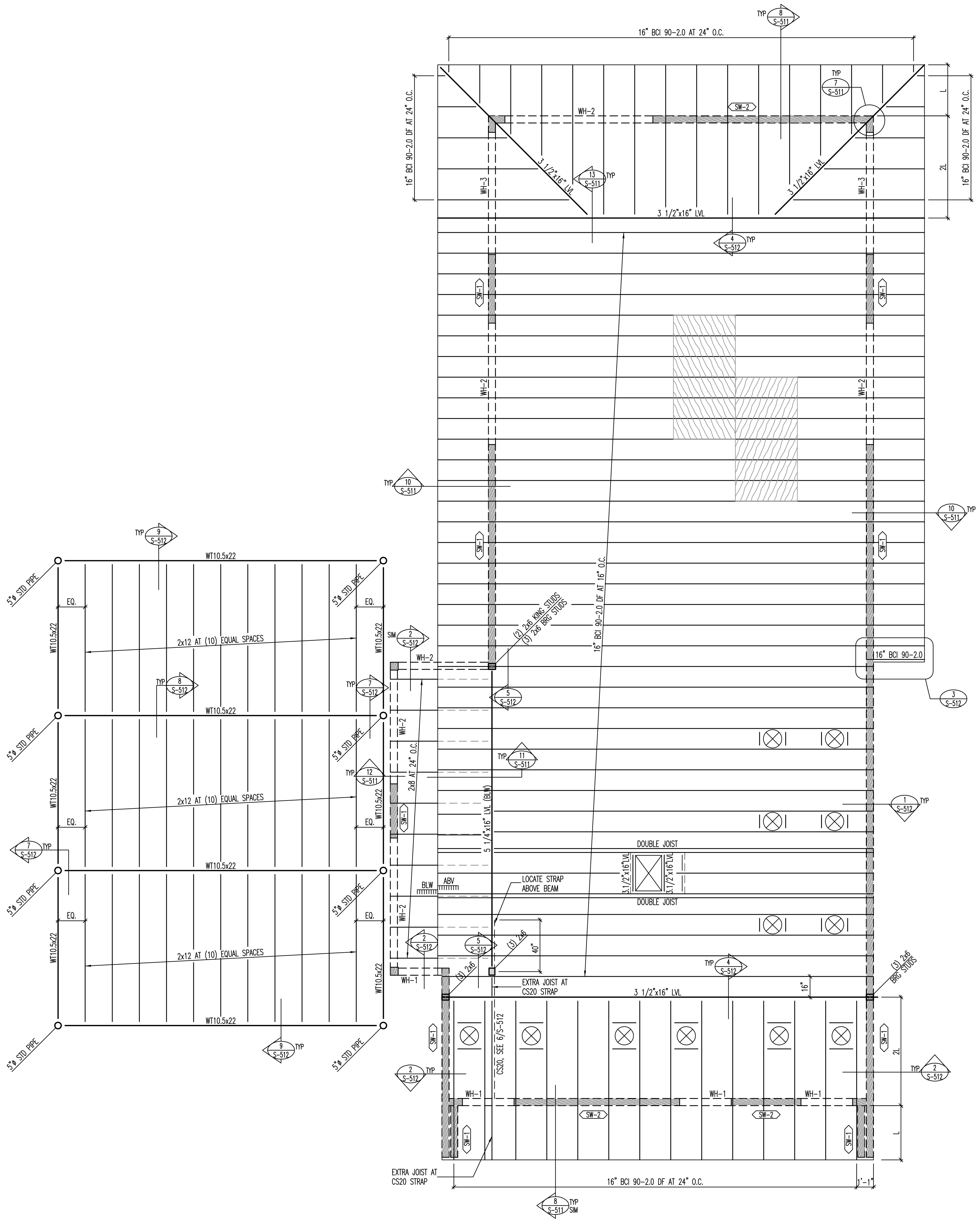
Revisions	
Date	Item

11-29-05

"Engineering Results"
BHB Consulting Engineers
A Professional Corporation
244 West 300 North
Suite 202
Salt Lake City, Utah 84103
Phone: 801.355.5656
Fax: 801.355.5950
Email: bhb@bhbengineers.com

GOBLIN VALLEY
S-101

Q:\2005\05203\Struct\05203_S-101.dwg, 11/29/2005 11:51:28 AM, peggye



ROOF FRAMING PLAN

SCALE: 1/4"=1'-0" 0 4' 8' 16'

WOOD_S-NOTE-ROOF

MARKS AND SYMBOLS LEGEND

- SECTION MARK / SHEET NUMBER
- INDICATES WOOD STUD WALL WHICH EXTENDS ABOVE ROOF.
- INDICATES WOOD STUD WALL WHICH STOPS AT ROOF.
- INDICATES PLYWOOD ROOF SHEATHING, SEE SCHEDULE ON SHEET S-601.
- SW-x — INDICATES WOOD SHEARWALL TYPE, SEE SCHEDULE ON SHEET S-601.
- SC-x — INDICATES STEEL COLUMN. SEE SCHEDULE ON SHEET S-601.
- WH-x — INDICATES WOOD HEADER. SEE DETAIL 6/S-511.

ROOF FRAMING DESIGN LOADS

ROOF LOADS:	
DEAD LOAD	20 psf
LIVE LOAD	30 psf
TOTAL LOAD	50 psf

ROOF FRAMING PLAN NOTES

1. VERIFY ALL ROOF OPENINGS FOR MECHANICAL SHAFTS, DRAINS, ETC. WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
2. SEE DETAIL 1/S-511 AND 2/S-511 FOR FRAMING AROUND ALL OPENINGS.
3. SEE DETAIL 3/S-511 FOR TYPICAL BUILT-UP BEAM DETAIL.
4. SEE DETAIL 4/S-511 FOR TYPICAL TOP PLATE SPLICE DETAIL.
5. SEE DETAIL 5/S-511 FOR TYPICAL TOP PLATE SPLICE SCHEDULE AT PIPE.
6. SEE ARCHITECTURAL PLANS FOR DIMENSIONS TO ALL STEEL COLUMNS.

"Engineering Results"
BHB Consulting Engineers
A Professional Corporation
244 West 300 North
Suite 202
Salt Lake City, Utah 84103
Phone: 801.355.5656
Fax: 801.355.5950
Email: bhb@bhbengineers.com

BHB Project # 05203

dave robinson architects
4525 Wasatch Blvd., Suite 301
Salt Lake City, Utah 84124
801-272-0242

NEW VISITORS CENTER for GOBLIN VALLEY STATE PARK

UTAH STATE DIVISION OF FACILITIES AND CONSTRUCTION MANAGEMENT

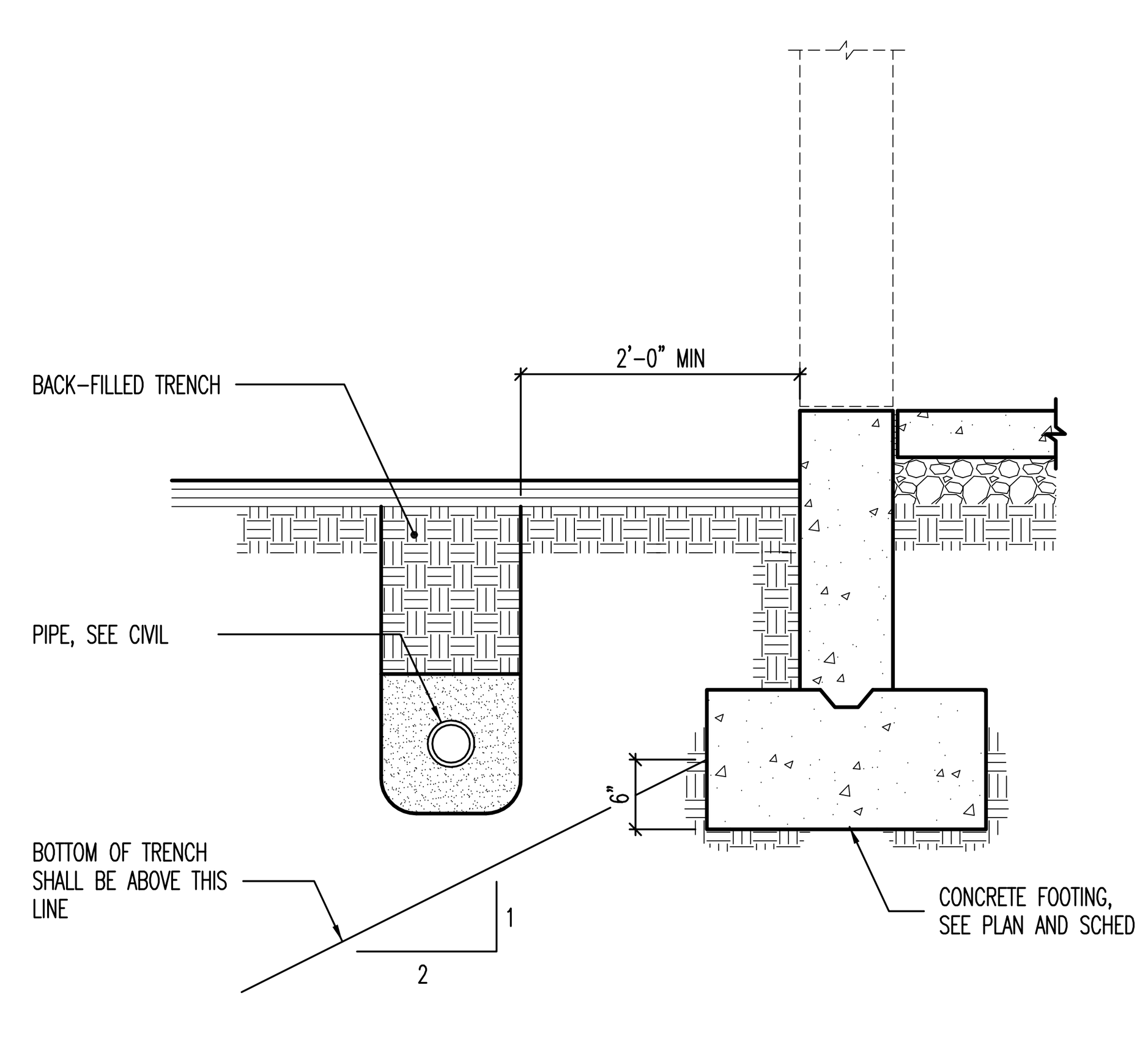
Revisions	
Date	Item

11-29-05

GOBLIN VALLEY

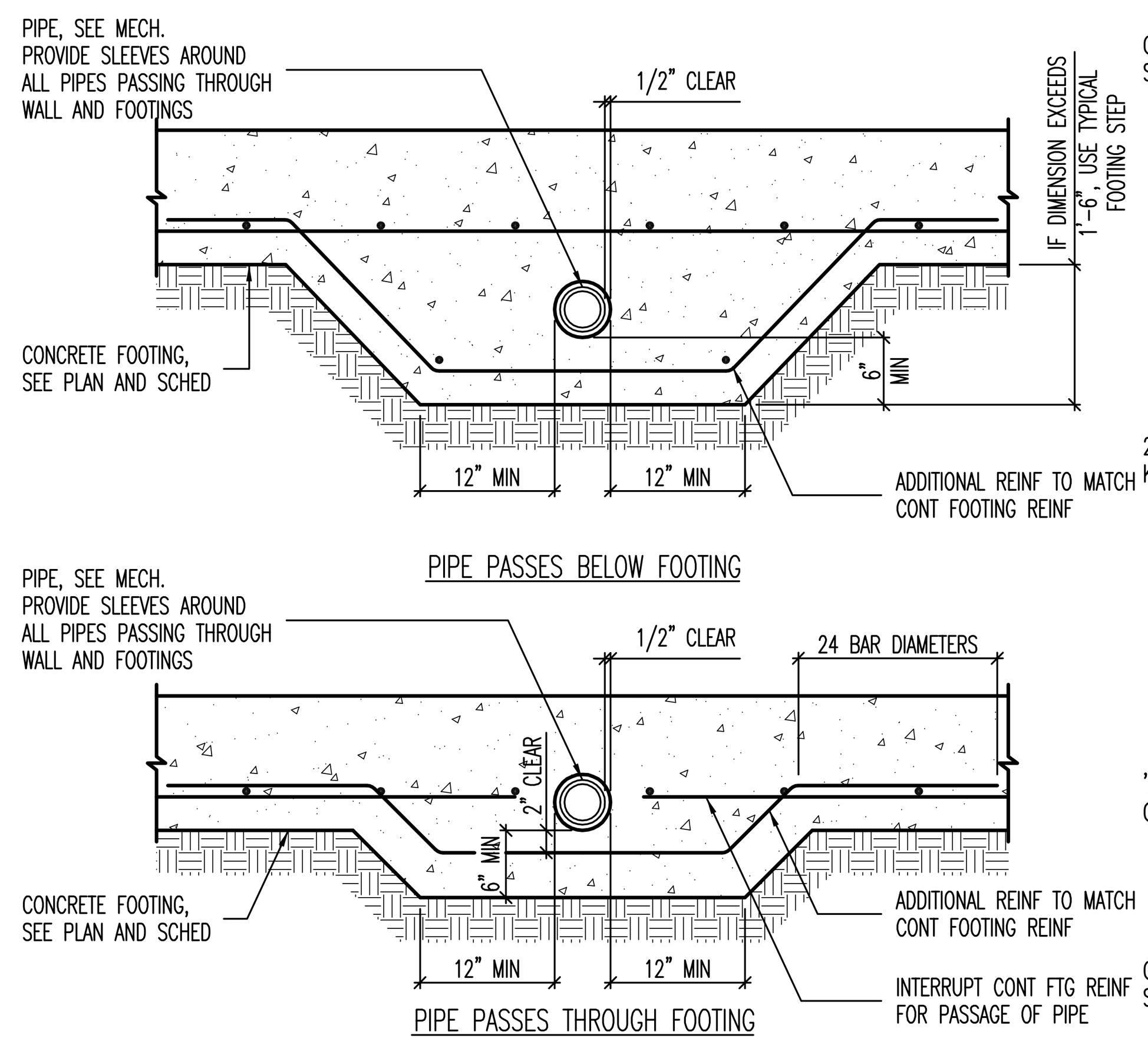
S-111

Q:\2005\05203\Struct\05203_S-111.dwg, 11/29/2005 11:51:20 AM, peggye



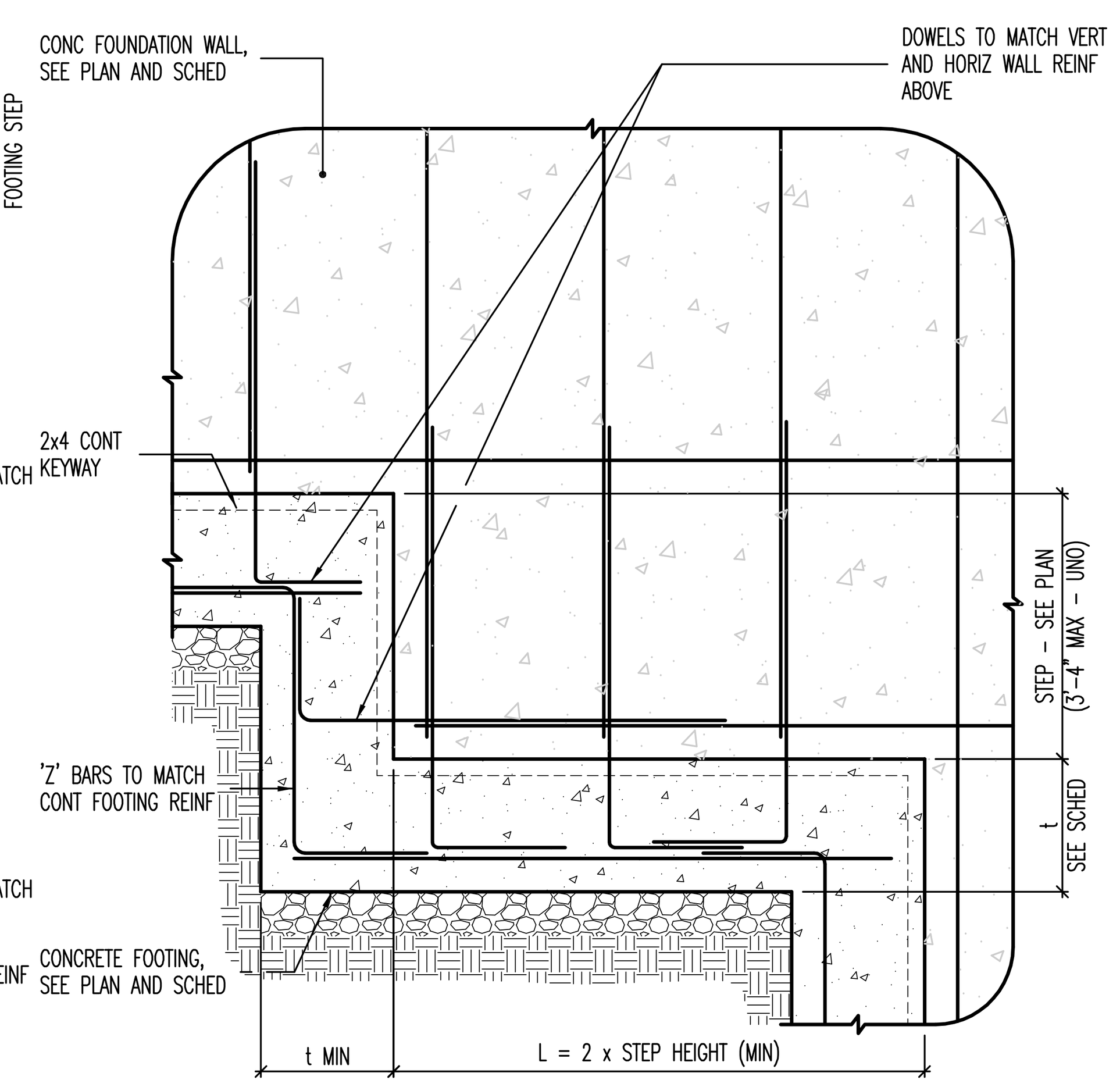
1 CONDITION AT PIPE PARALLEL TO CONCRETE FOOTING
NO SCALE

2114048–01



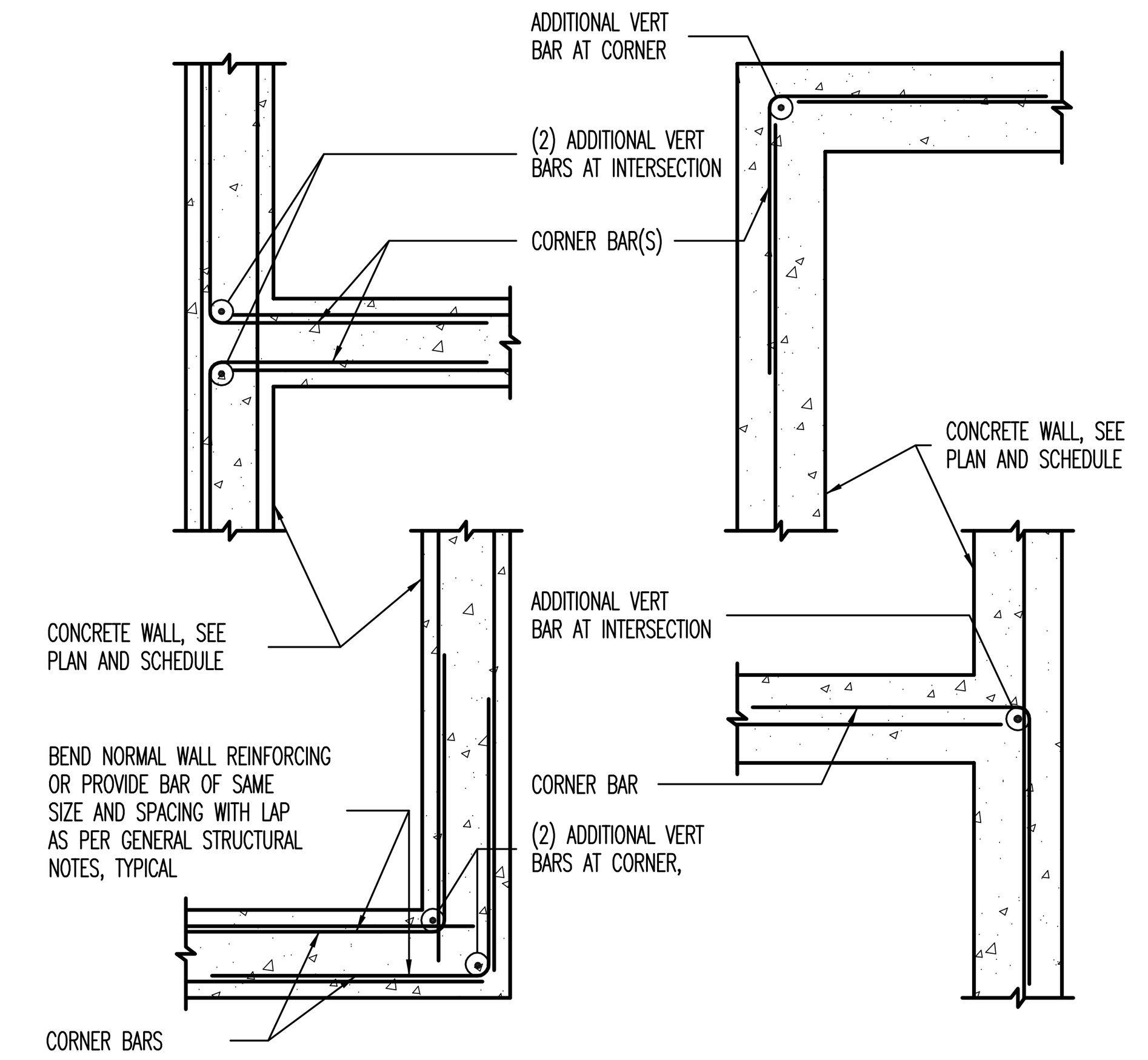
2 CONDITIONS AT PIPE PERPENDICULAR TO FOOTING
NO SCALE

16384–00



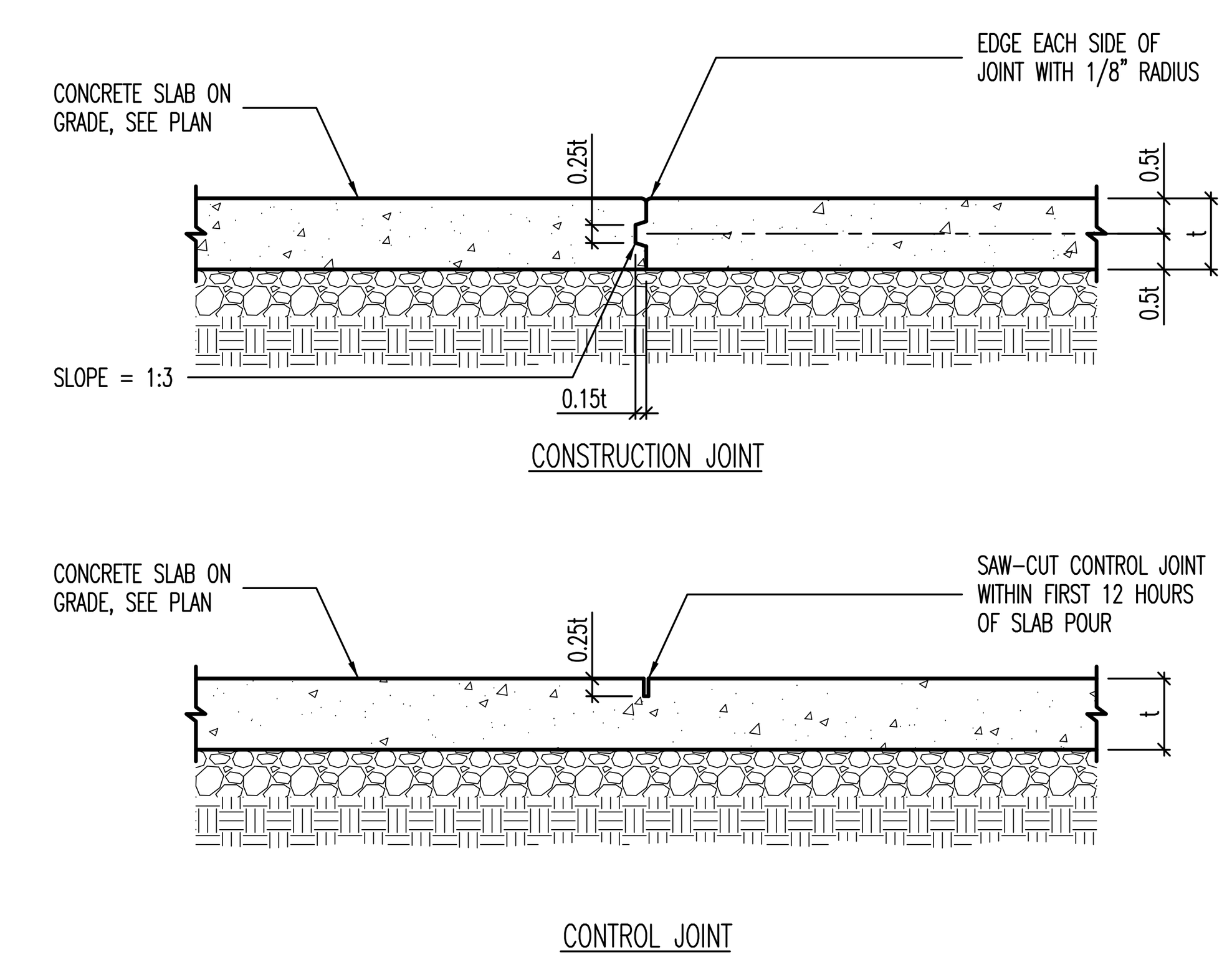
3 TYPICAL FOOTING STEP DETAIL
NO SCALE

2114048–00



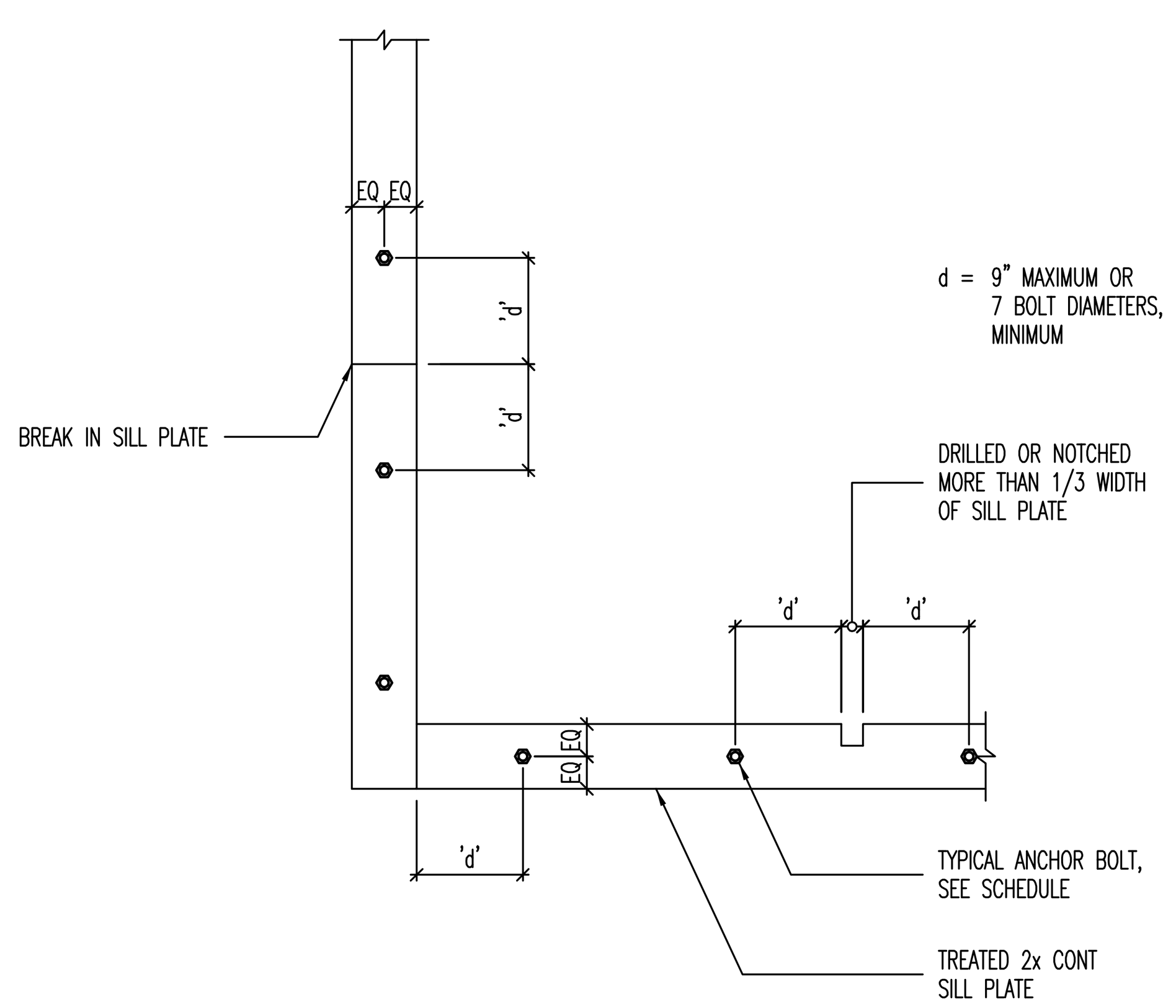
4 TYPICAL CORNER WALL REINFORCING AT CONCRETE WALLS [PLAN VIEW]
NO SCALE

2097665–00



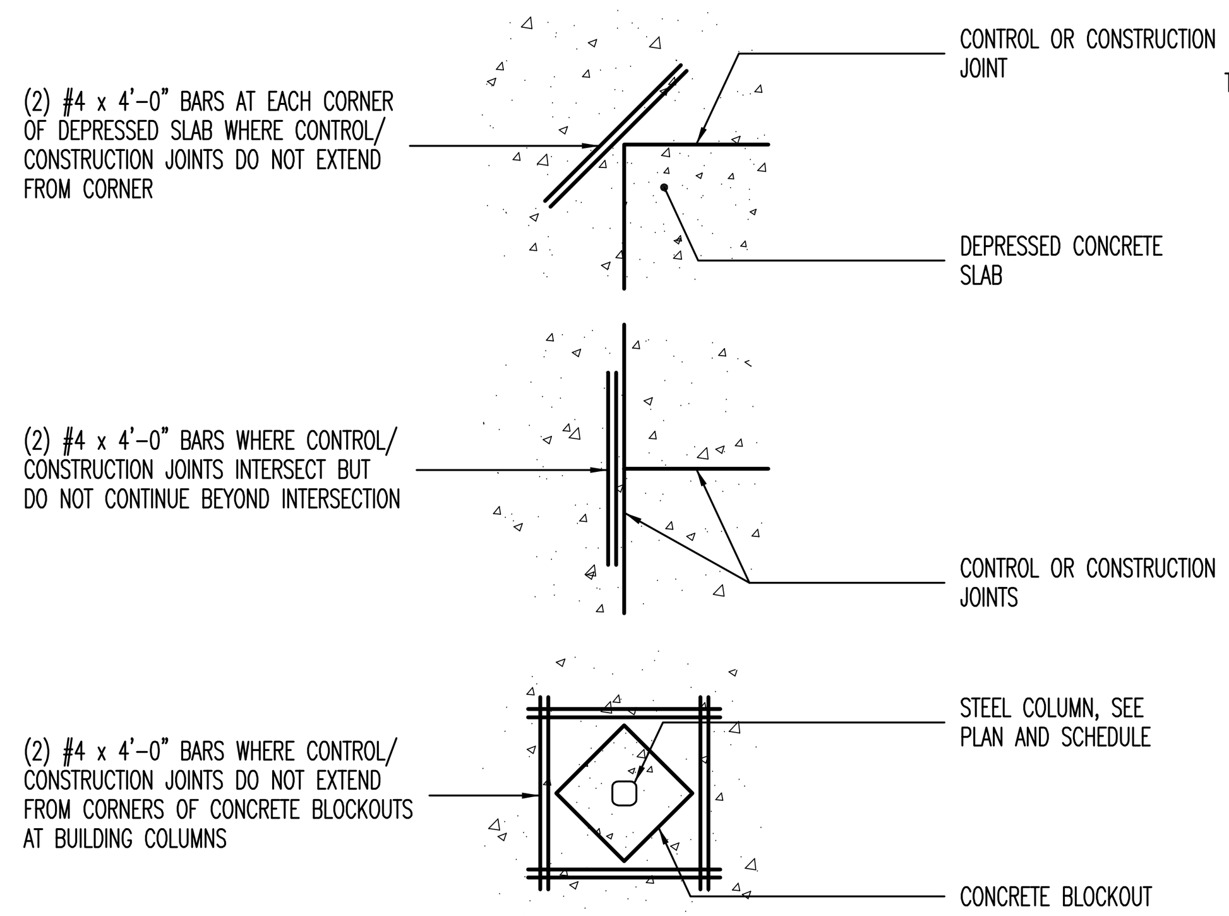
5 TYPICAL SLAB ON GRADE JOINT DETAILS
NO SCALE

0–00



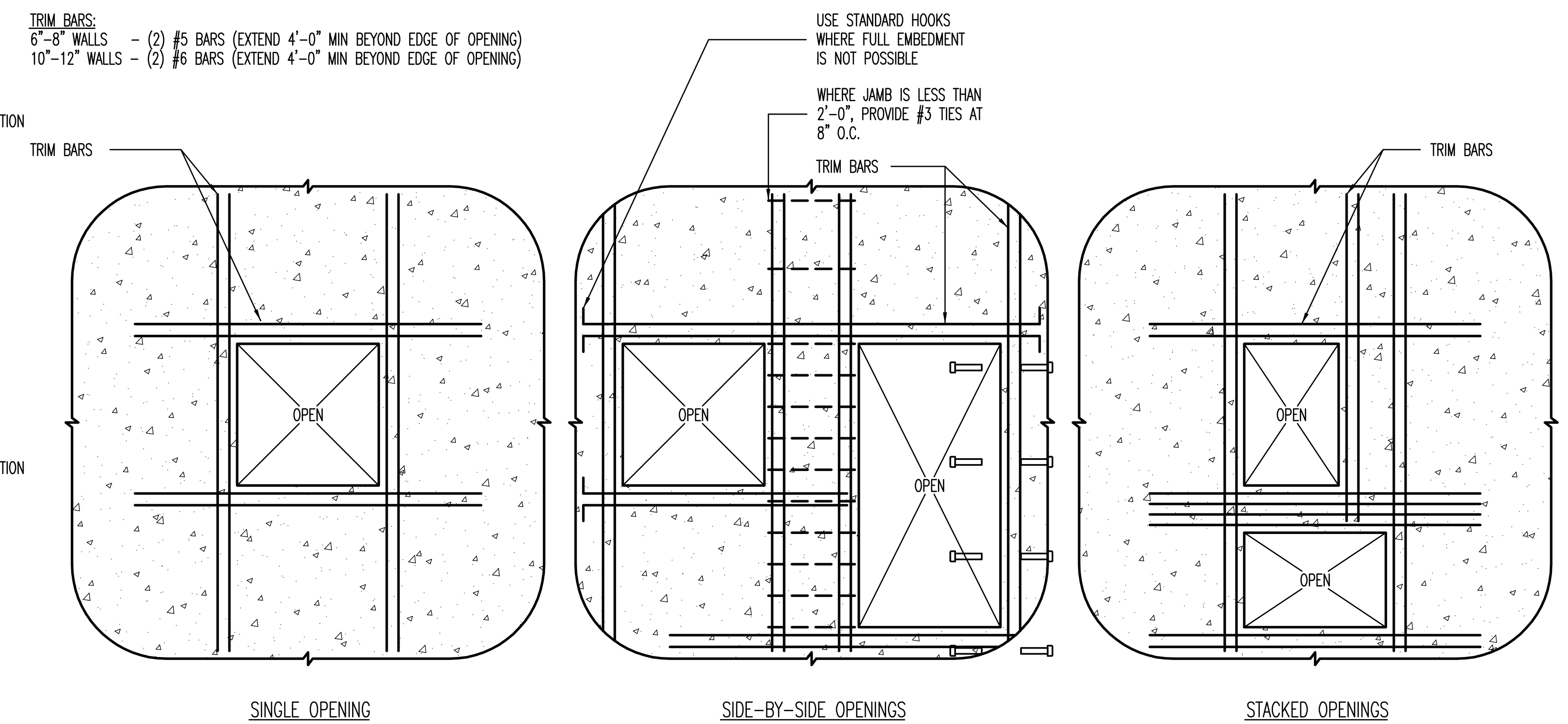
6 SILL PLATE BOLTING DETAIL [PLAN VIEW]
NO SCALE

33281–00



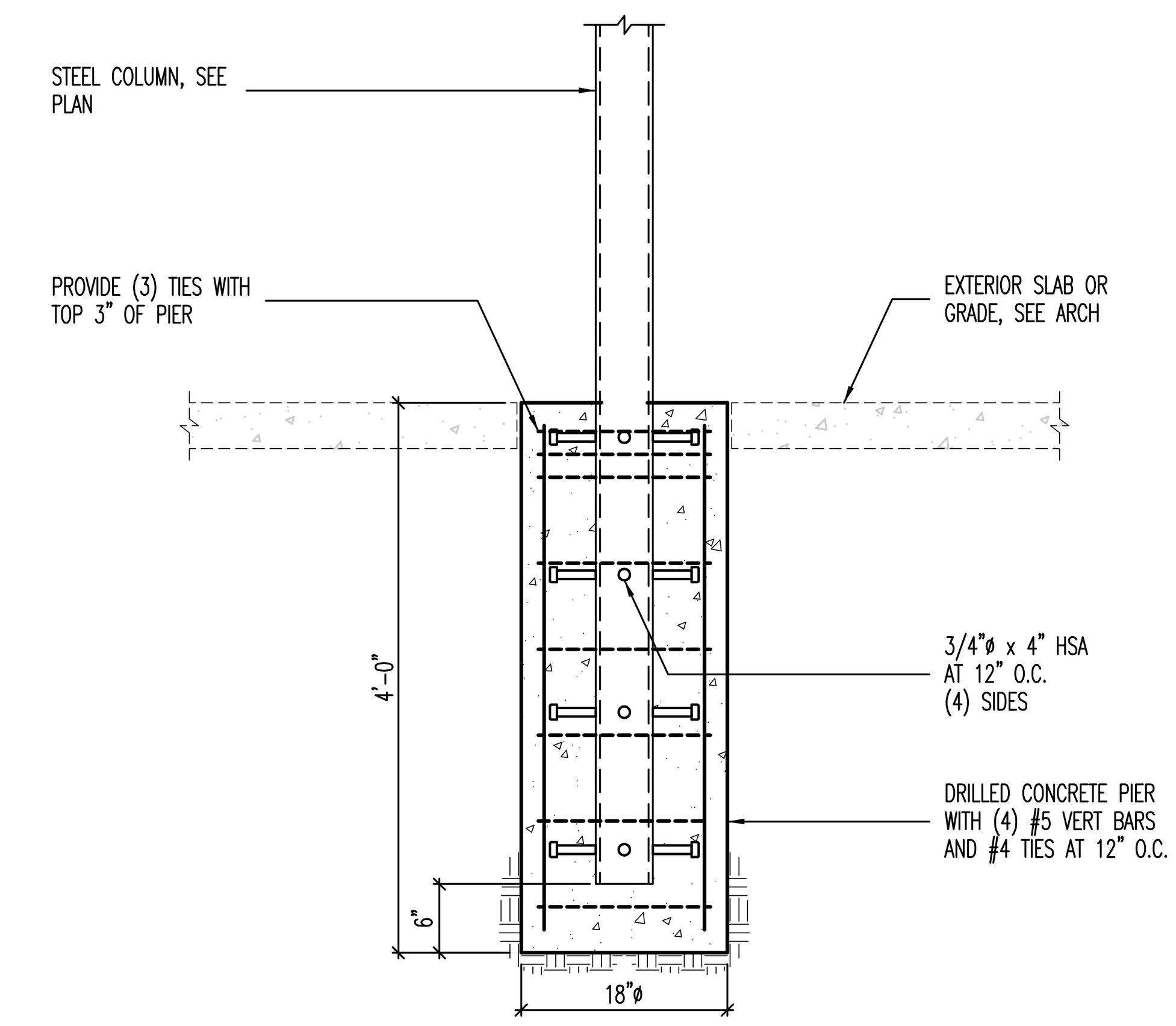
7 LOCATIONS REQUIRING ADDITIONAL SLAB REINFORCING [PLAN VIEW]
NO SCALE

132097–00



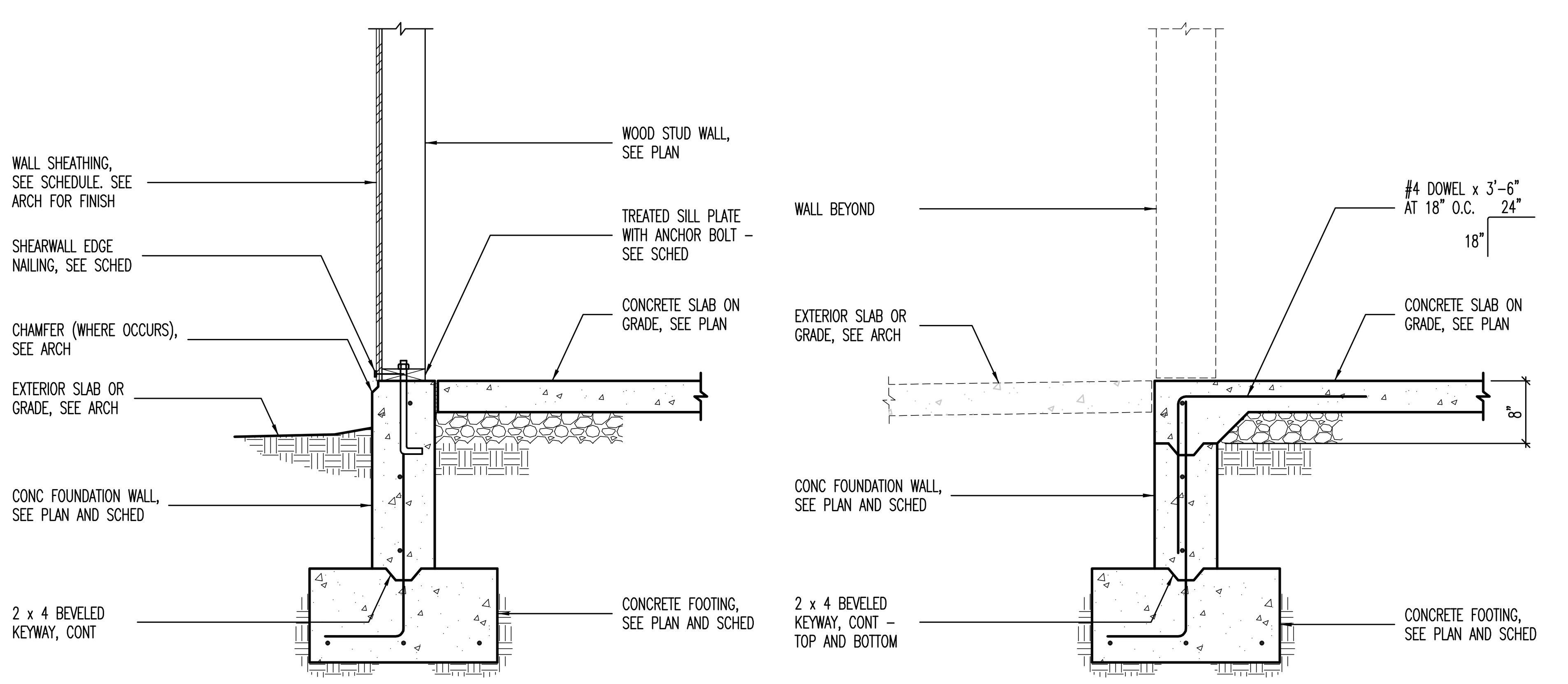
8 TYPICAL REINFORCING FOR MISCELLANEOUS OPENINGS LESS THAN 3'–0" IN CONCRETE WALLS
WHERE MISCELLANEOUS OPENING WIDTH IS GREATER THAN 3'–0" WIDE, CONTACT STRUCTURAL ENGINEER.
NO SCALE

2098688–00



9 EXTERIOR STEEL COLUMN/PIER DETAIL
NO SCALE

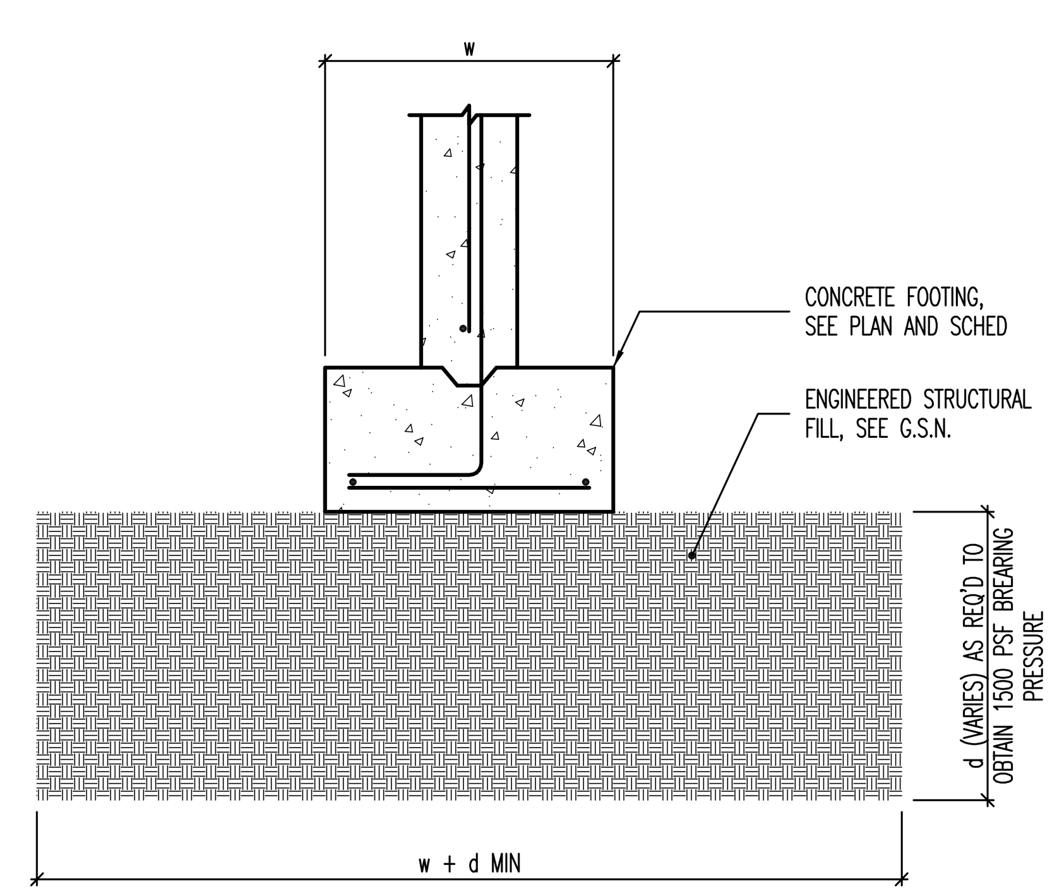
05203S501



10 CONCRETE FOUNDATION WALL DETAIL
NO SCALE

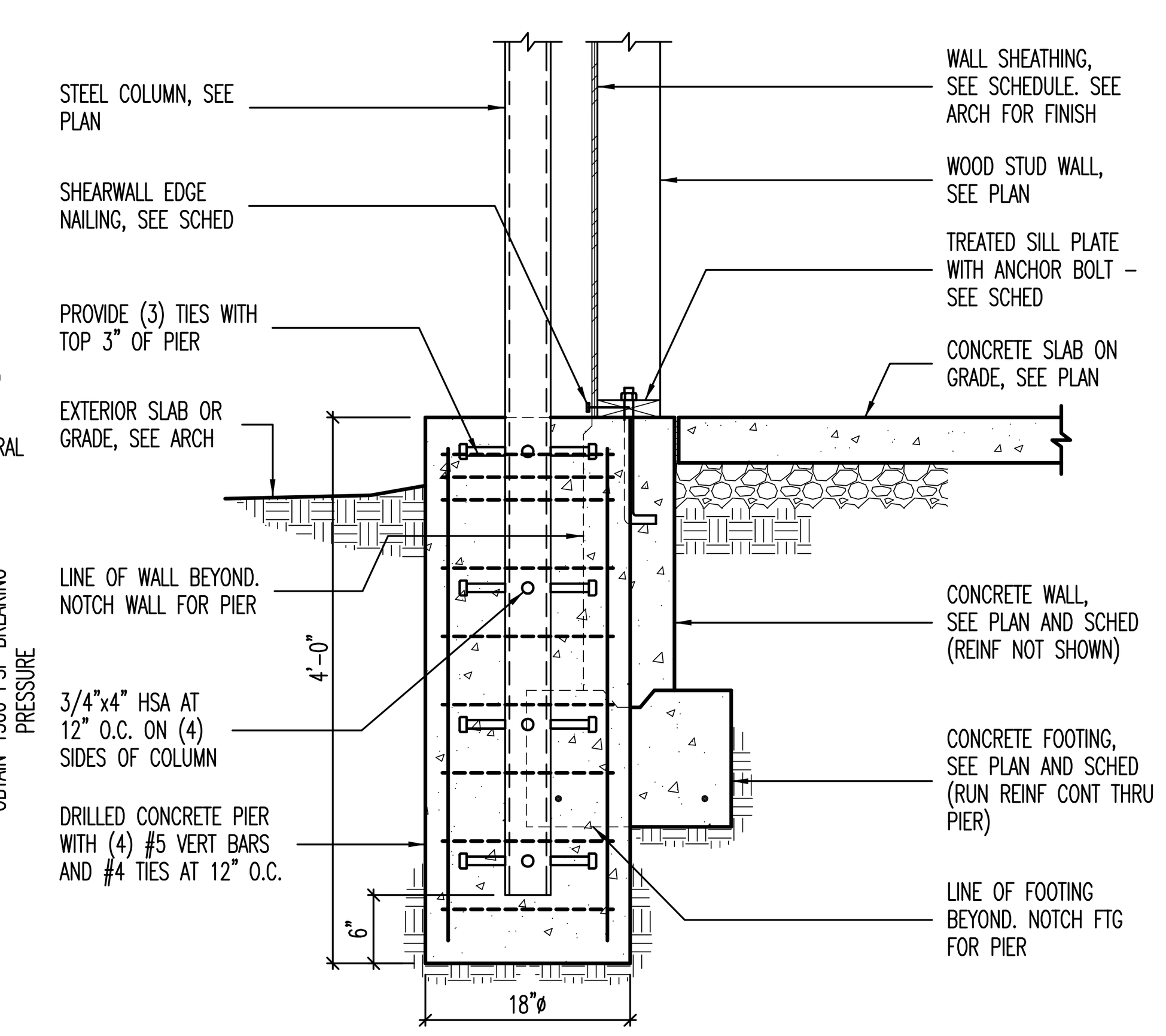
2146816–00

3916288–00



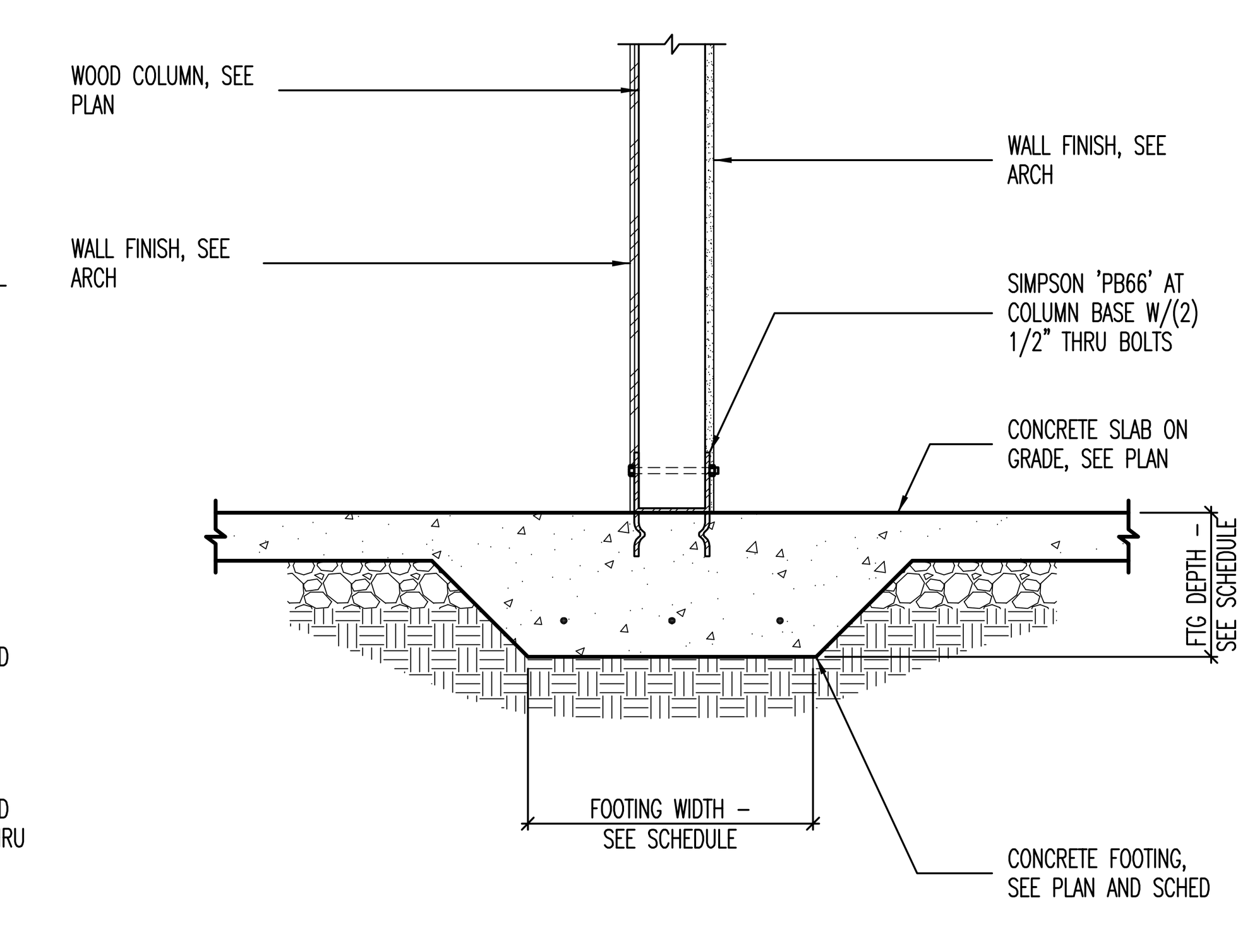
11 ENGINEERED STRUCTURAL FILL DETAIL
NO SCALE

2114048–02



12 CONCRETE FOUNDATION WITH ADJACENT PIER
NO SCALE

05203S501



13 THICKENED SLAB FOOTING AT INTERIOR WOOD COLUMN
NO SCALE

49664–00

"Engineering Results"
BHB Consulting Engineers
A Professional Corporation
244 West 300 North
Suite 202
Salt Lake City, Utah 84103
Phone: 801.355.5656
Fax: 801.355.5950
Email: bhb@bhbengineers.com

BHB Project # 05203

dave robinson architects
4525 Wasatch Blvd., Suite 301
Salt Lake City, Utah 84124
801-272-0242

NEW VISITORS CENTER for GOBLIN VALLEY STATE PARK

UTAH STATE DIVISION OF FACILITIES AND CONSTRUCTION MANAGEMENT

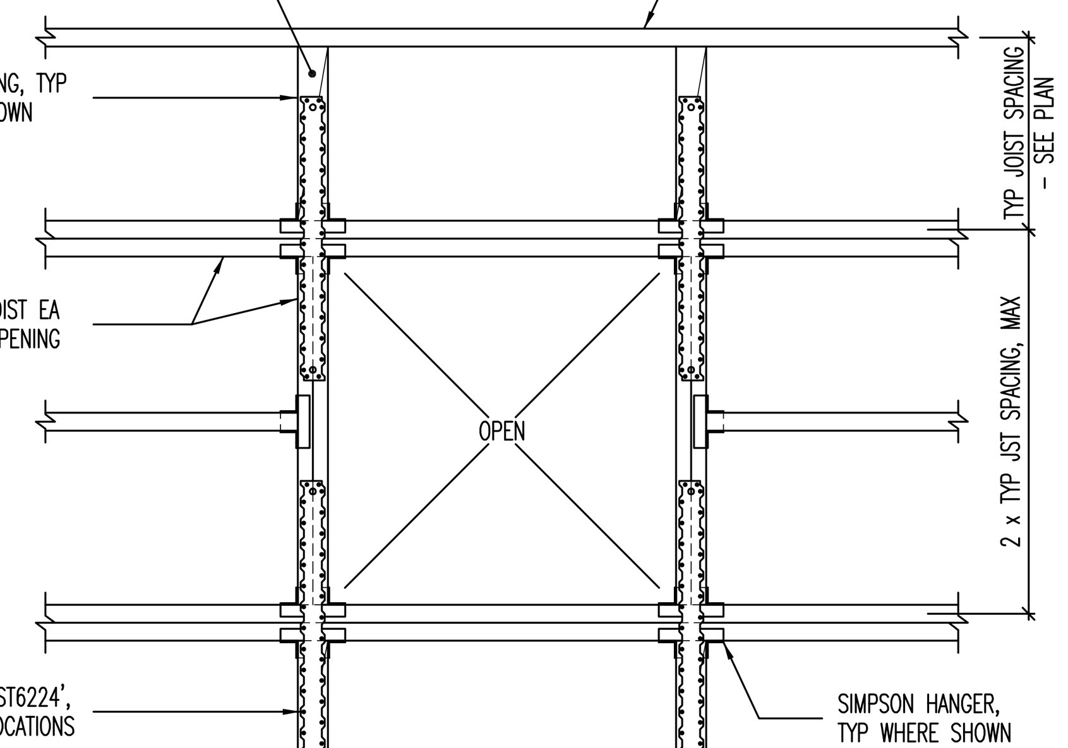
Revisions	
Date	Item

11-29-05

GOBLIN VALLEY

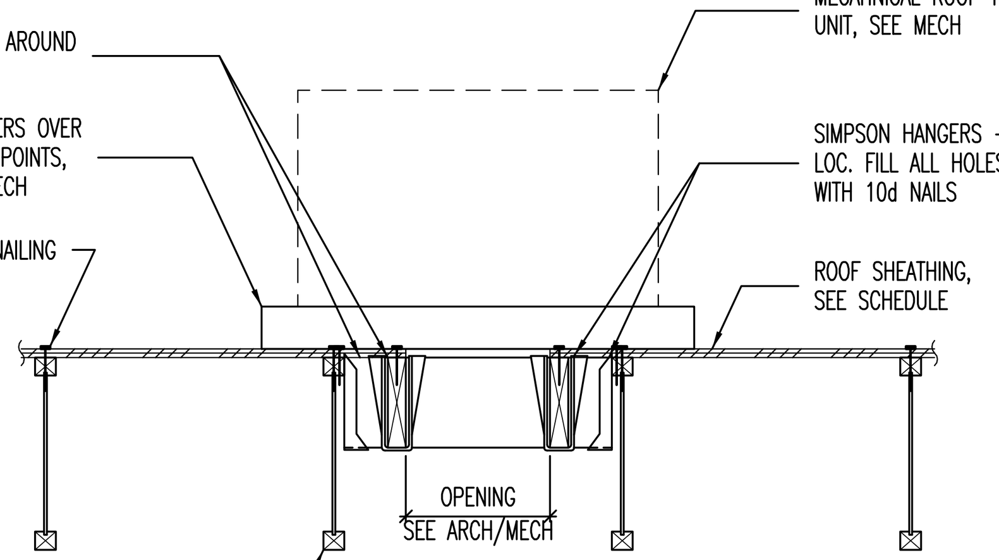
S-501

BHB Project # 05203

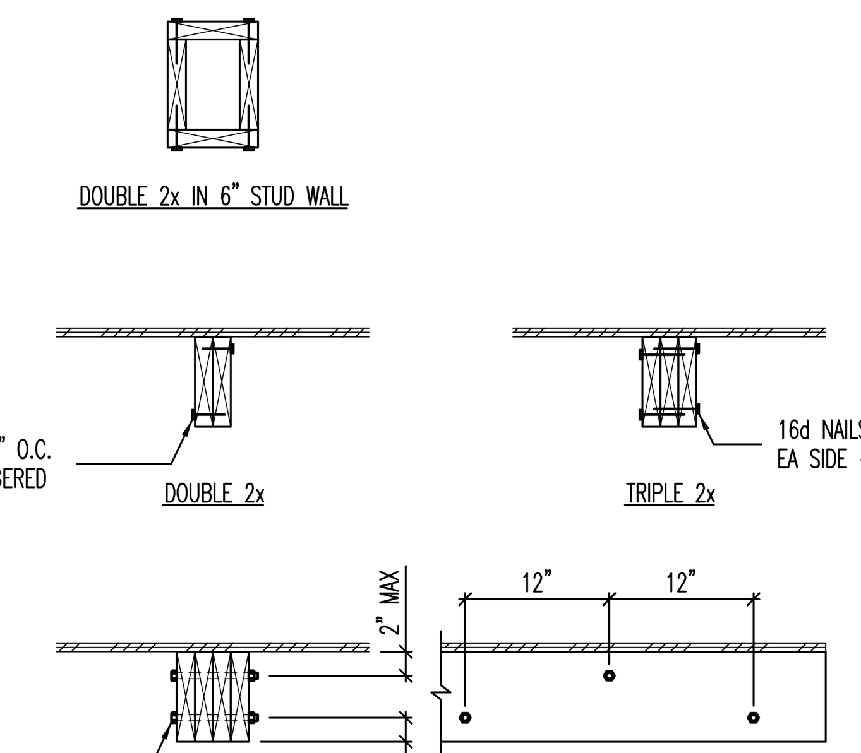


NOTES:
1. SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR LOCATION AND SIZE OF OPENINGS.
2. AT CONTRACTOR'S OPTION, 3x BLOCKING AND STRAPS MAY BE OMITTED AT FLOORS ONLY.

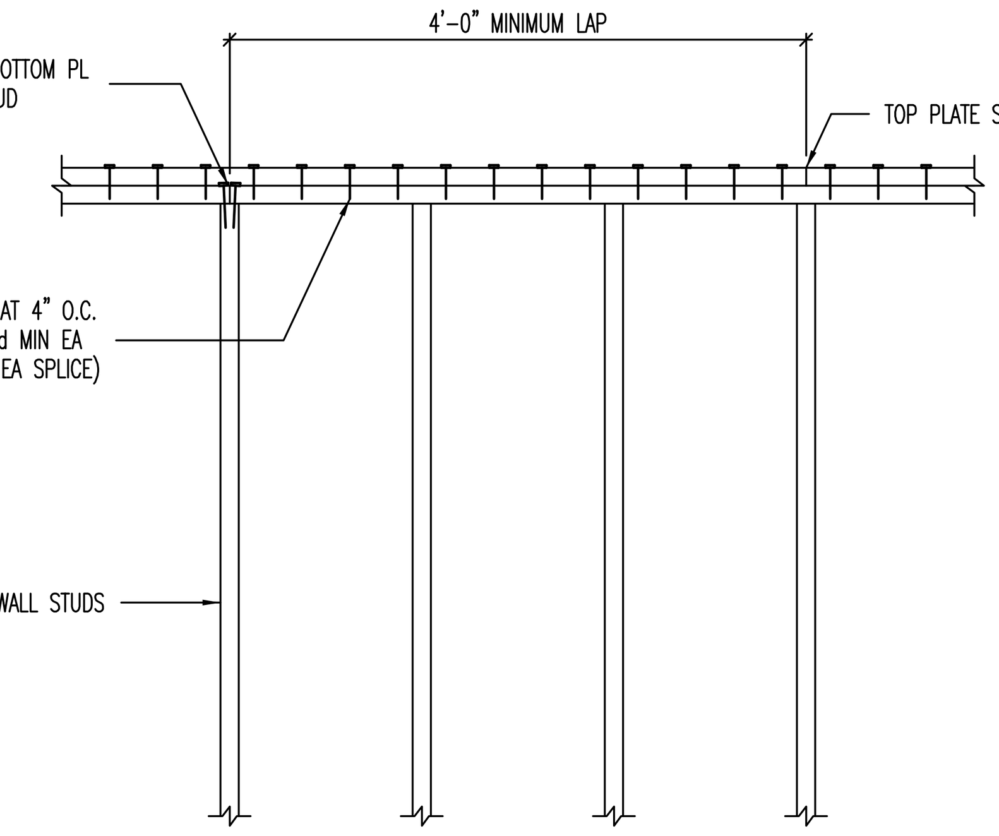
1 FRAMING AT ROOF AND FLOOR OPENINGS [PLAN VIEW]
NO SCALE
38917-00



2 TYPICAL MECHANICAL UNIT SUPPORT DETAIL
2052-00

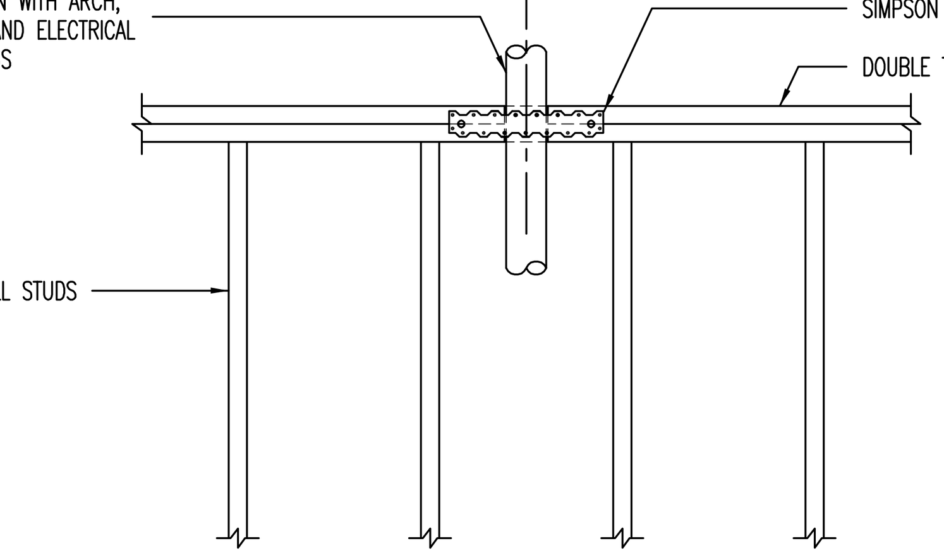


3 BUILT-UP BEAM DETAILS
NO SCALE
34944-00



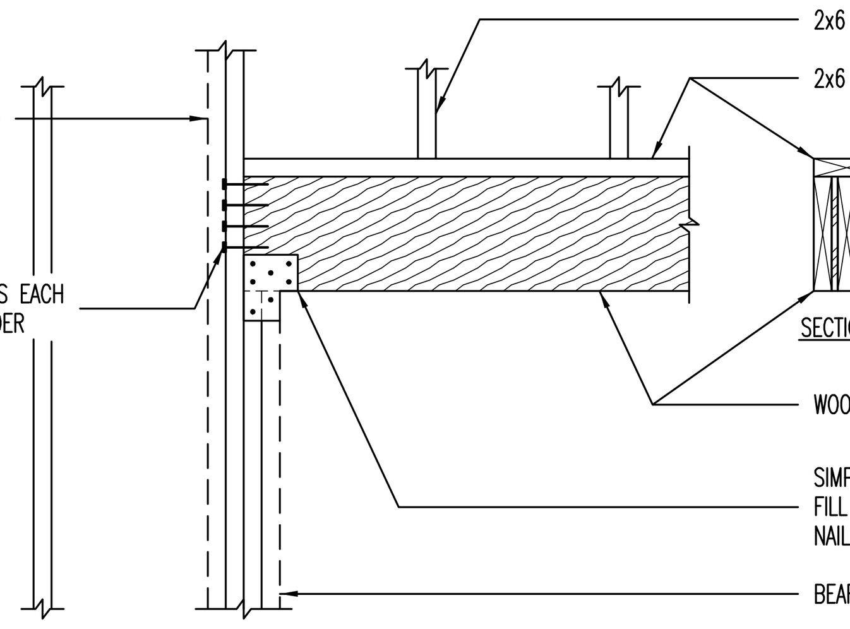
4 TYPICAL TOP PLATE SPLICE DETAIL
NO SCALE
39424-00

TOP PLATE SPLICE	
HOLE SIZE	STRAPS
LESS THAN OR EQUAL TO 1/3 STUD WIDTH	NONE REQUIRED
GREATER THAN 1/3 AND LESS THAN OR EQUAL TO 2/3 STUD WIDTH	ST2122 WITH (4) 16d NAILS EACH END
GREATER THAN 2/3 STUD WIDTH	ST2215 WITH (6) 16d NAILS EACH END

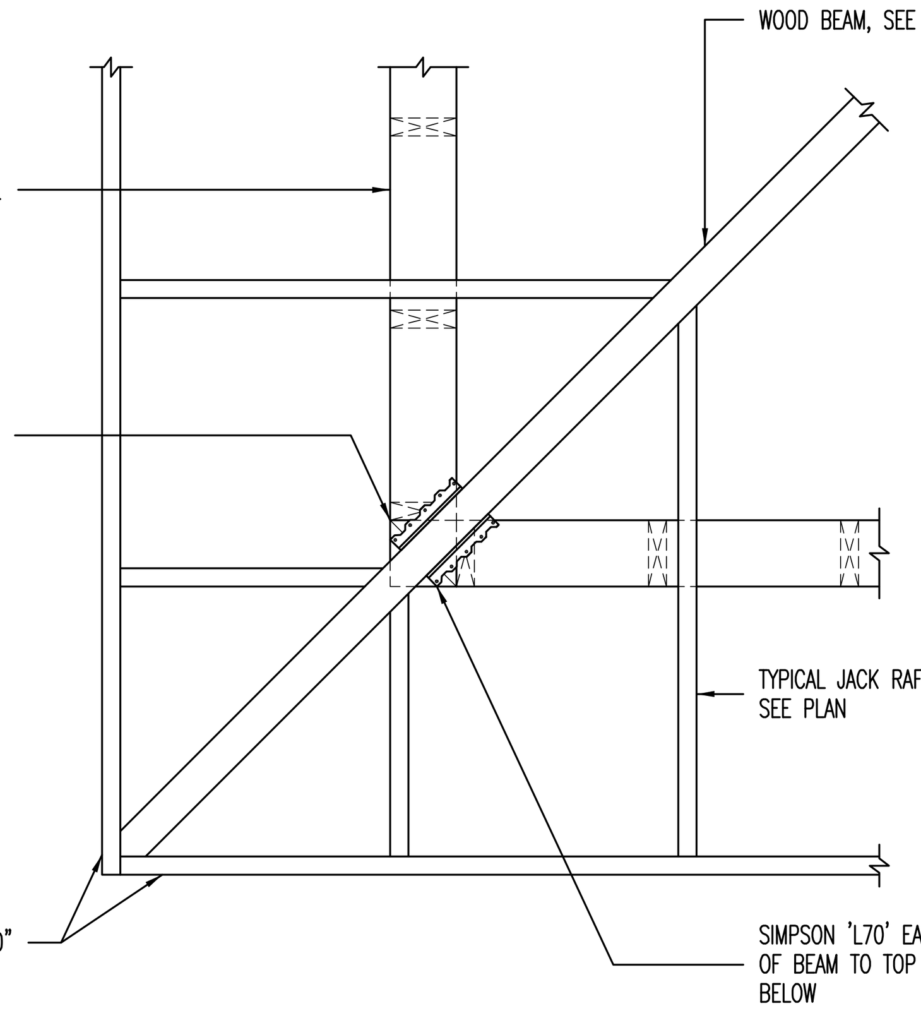


5 TOP PLATE SPLICE SCHEDULE AT PIPE
NO SCALE
39424-01

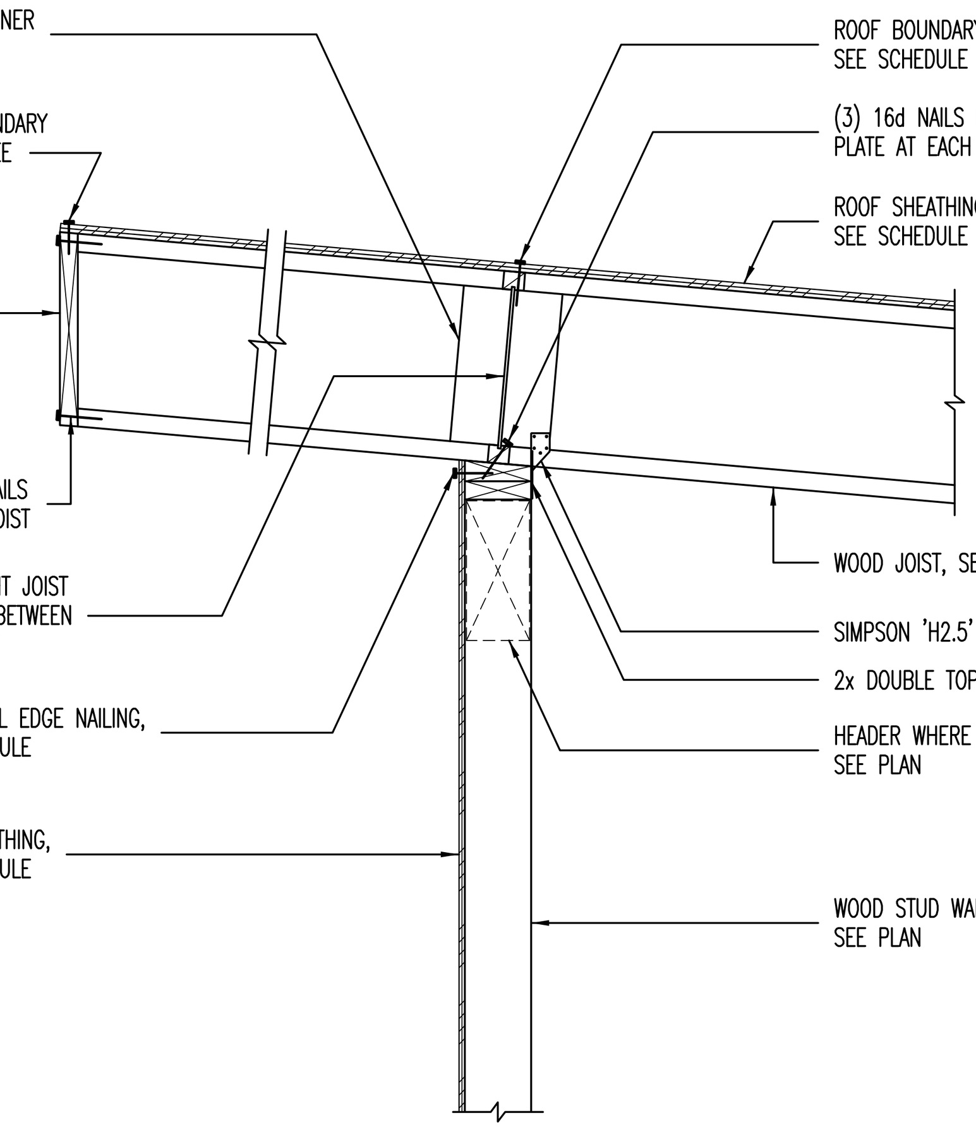
HEADER BEARING SCHEDULE FOR 2x6 STUD WALL					
MARK	HEADER	MAXIMUM HEADER SPAN	JAMB: BEARING STUDS	JAMB: KING STUDS	COMMENTS
WH-1	(3) 1 3/4"x 5 1/2" LVL	4'-0"	(1) 2x6	(3) 2x6	.
WH-2	(3) 1 3/4"x 5 1/2" LVL	8'-0"	(1) 2x6	(4) 2x6	
WH-3	(3) 1 3/4"x 7 1/4" LVL	8'-0"	(2) 2x6	(4) 2x6	



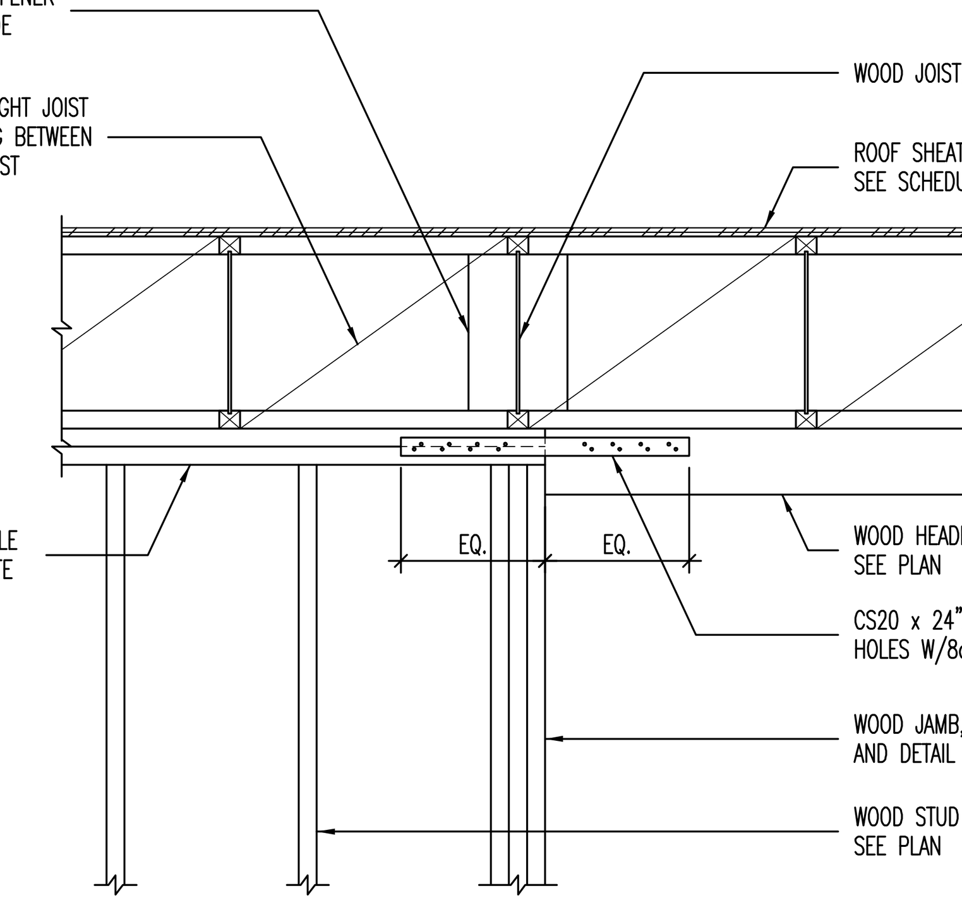
6 HEADER BEARING SCHEDULE FOR 2x6 STUD WALL
NO SCALE
33408-01



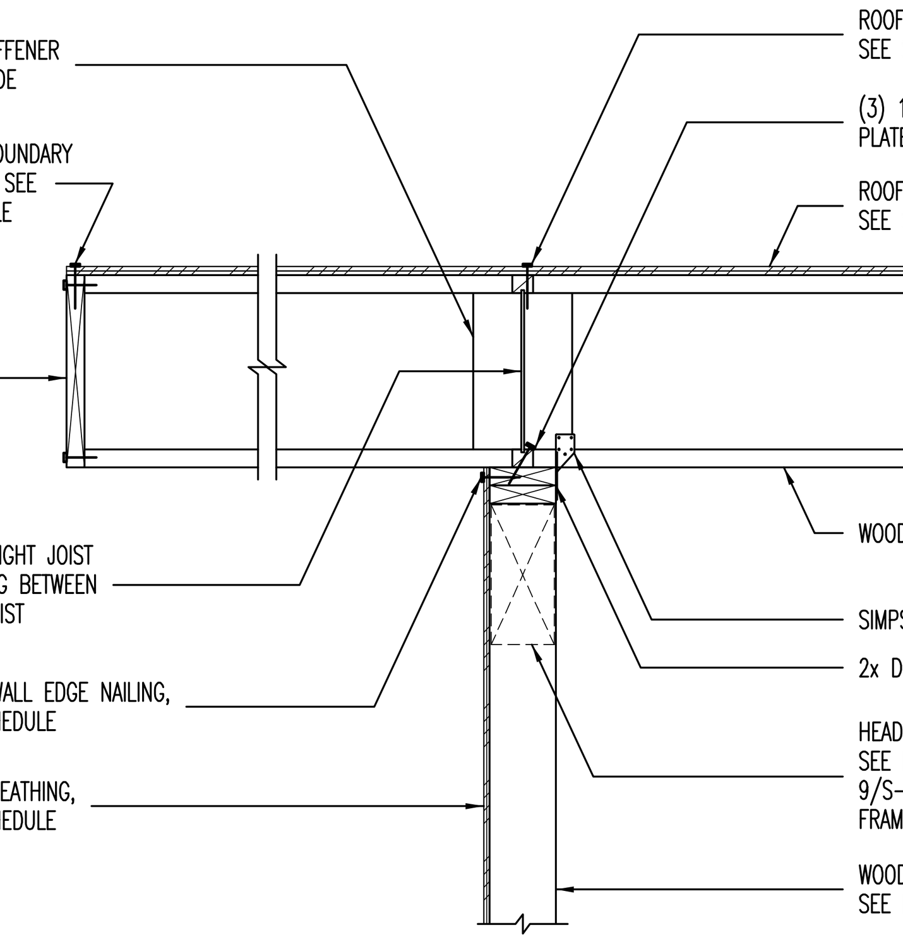
7 CORNER SOFFIT FRAMING [PLAN VIEW]
NO SCALE
2565-21



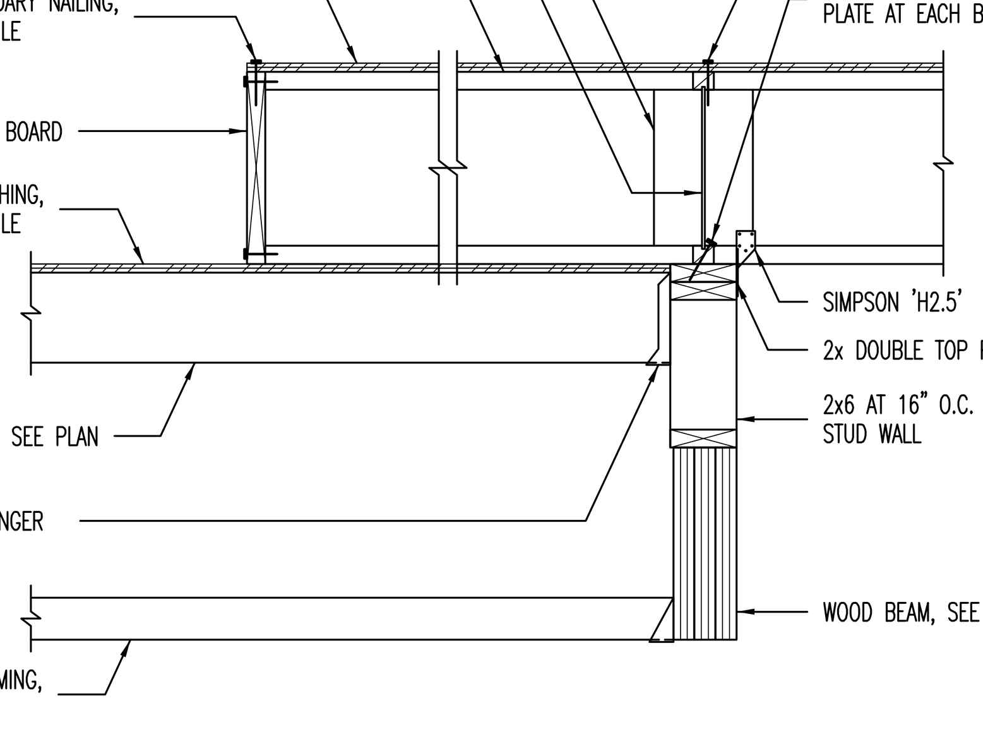
8 TYPICAL SLOPED JOIST BEARING AT WOOD STUD WALL
NO SCALE
05203_S-511



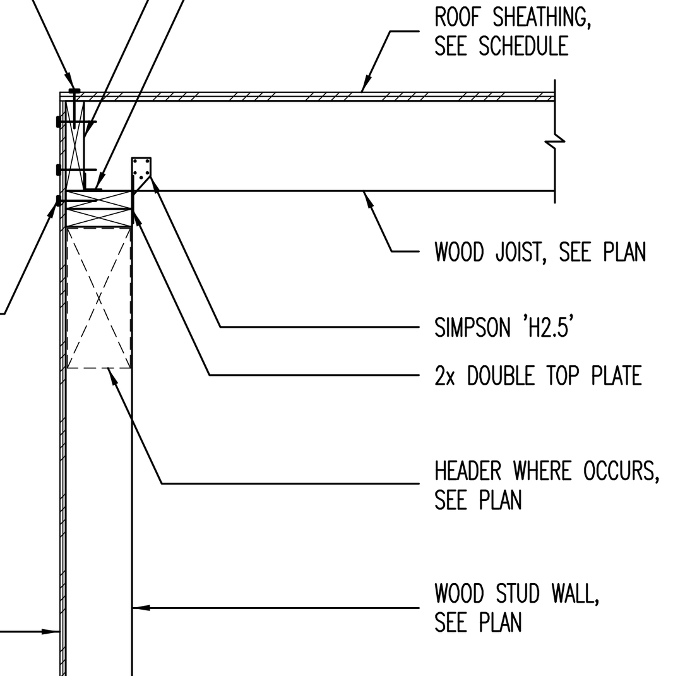
9 OPTIONAL HEADER FRAMING DETAIL
NO SCALE
05203_S-511



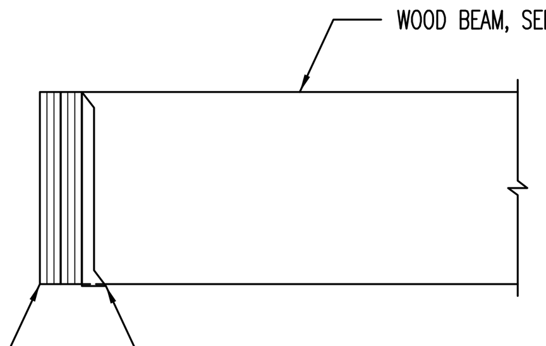
10 TYPICAL JOIST BEARING AT WOOD STUD WALL
NO SCALE
35334-05



11 TYPICAL ROOF STEP FRAMING DETAIL
NO SCALE
05203_S-511



12 TYPICAL JOIST BEARING AT WOOD STUD WALL
NO SCALE
05203_S-511



13 BEAM TO BEAM CONNECTION
NO SCALE
05203S511

dave robinson architects
4525 Wasatch Blvd., Suite 301
Salt Lake City, Utah 84124
801-272-0242

NEW VISITORS CENTER for GOBLIN VALLEY STATE PARK

UTAH STATE DIVISION OF FACILITIES AND CONSTRUCTION MANAGEMENT

Revisions	
Date	Item

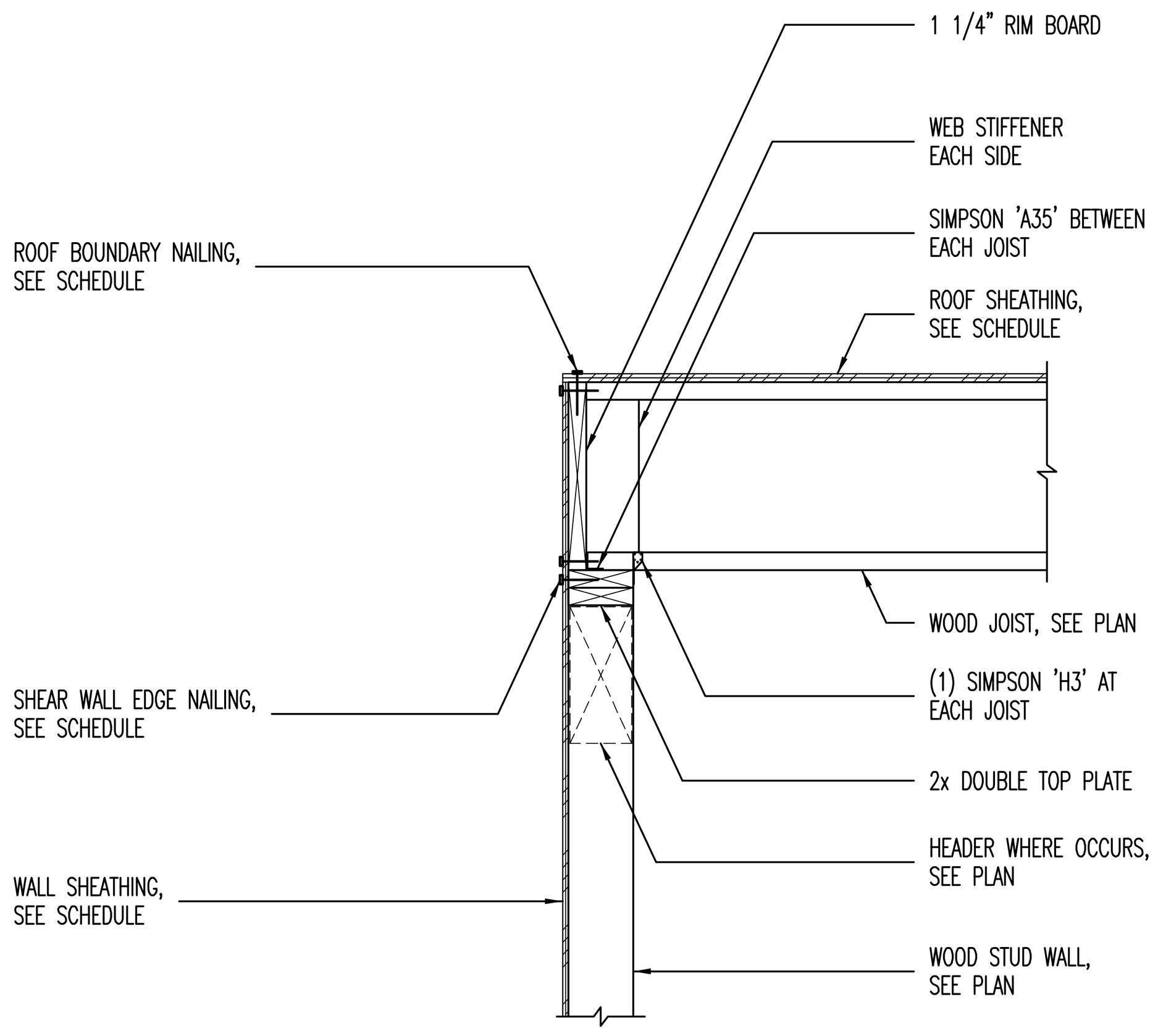
11-29-05

"Engineering Results"
BHB Consulting Engineers
A Professional Corporation
244 West 300 North
Suite 202
Salt Lake City, Utah 84103
Phone: 801.355.5656
Fax: 801.355.5950
Email: bhb@bhbengineers.com

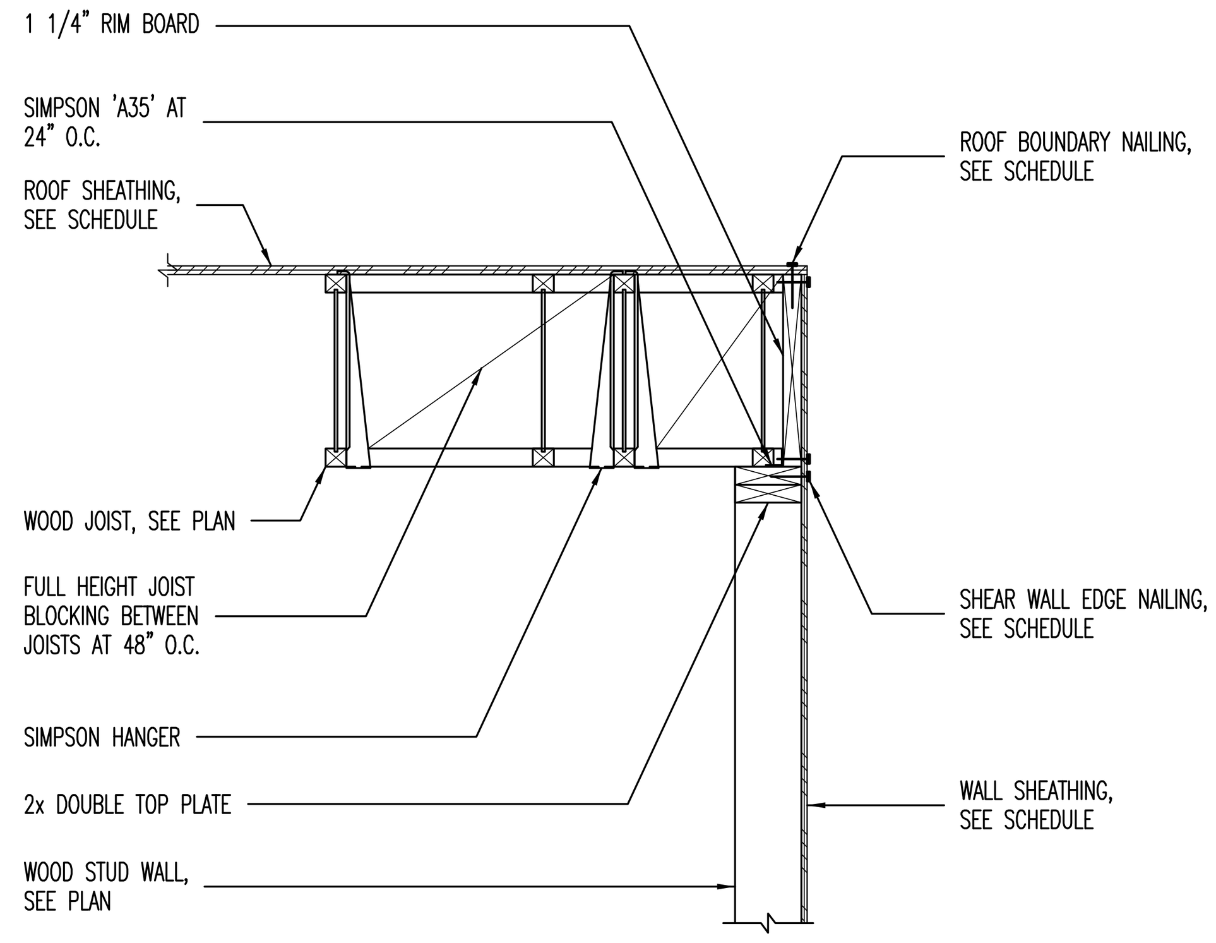
GOBLIN VALLEY

S-511

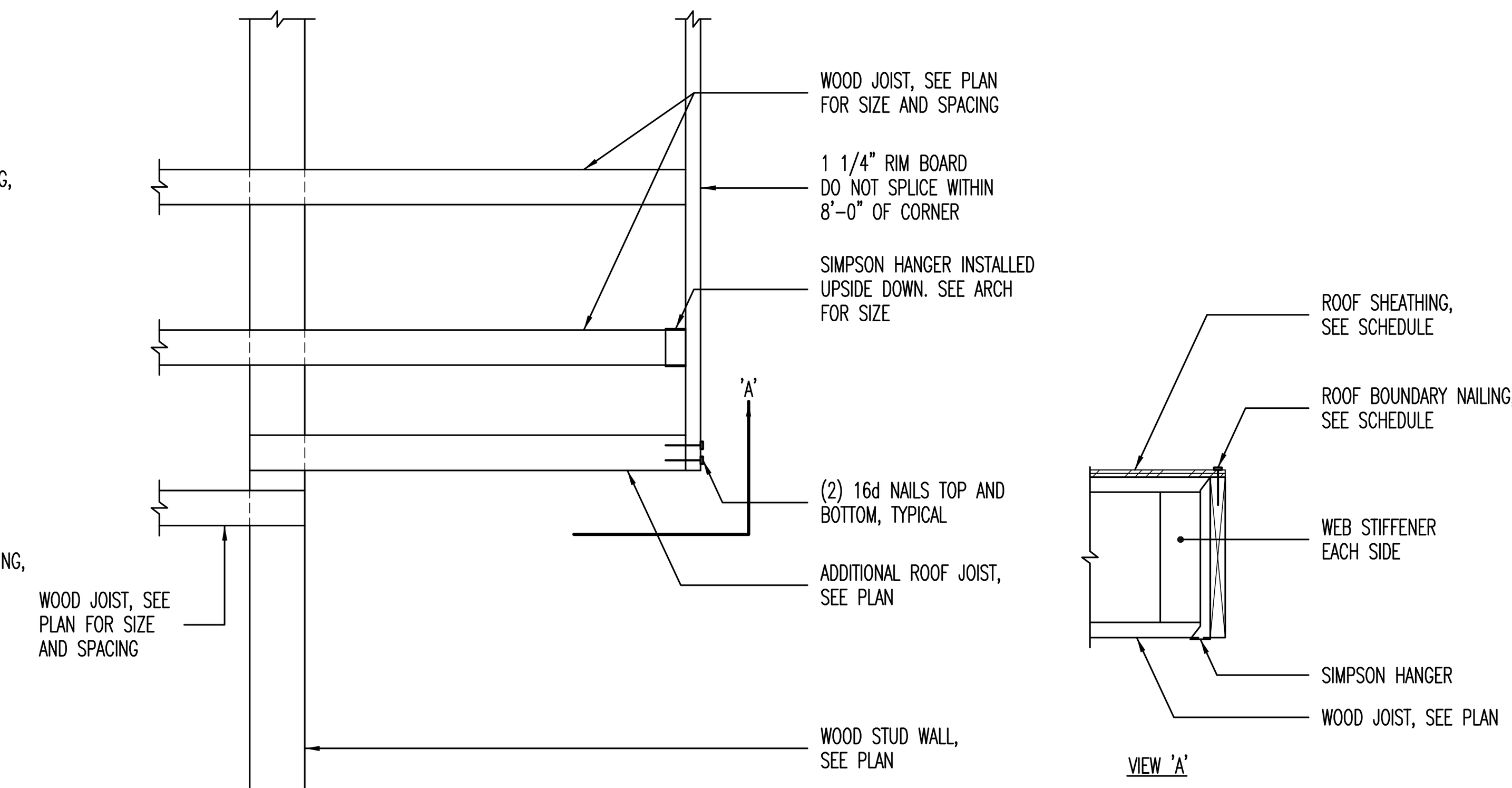
Q:\2005\05203\Struct\05203_S-511.dwg, 11/29/2005 11:51:06 AM, peggye



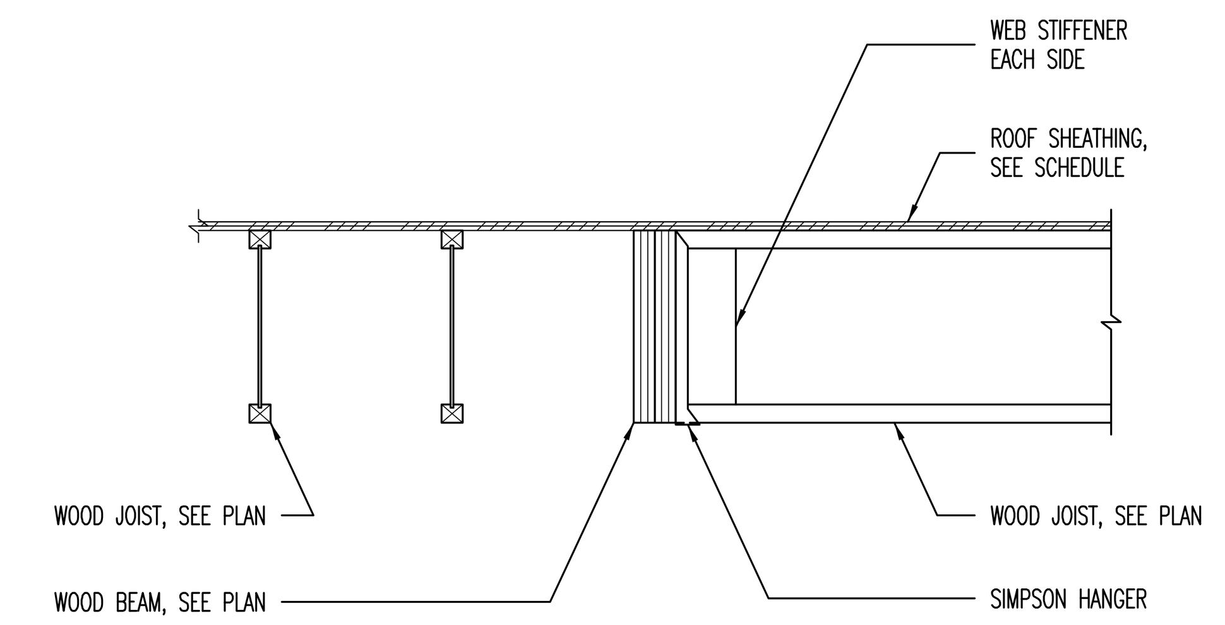
1 TYPICAL JOIST BEARING AT WOOD STUD WALL
NO SCALE
05203_S-512



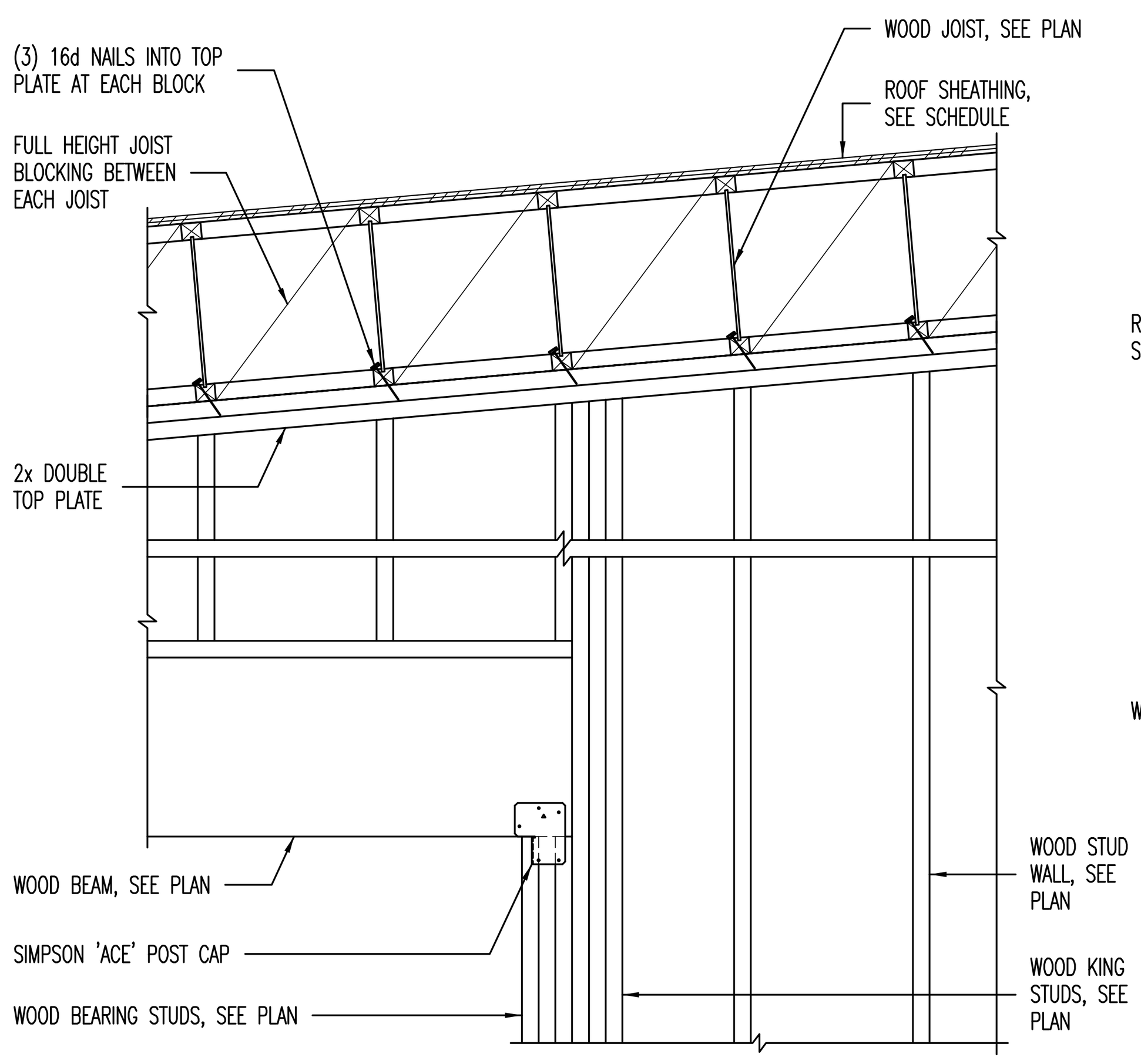
2 TYPICAL DECK BEARING AT WOOD STUD WALL
NO SCALE
05203_S-512



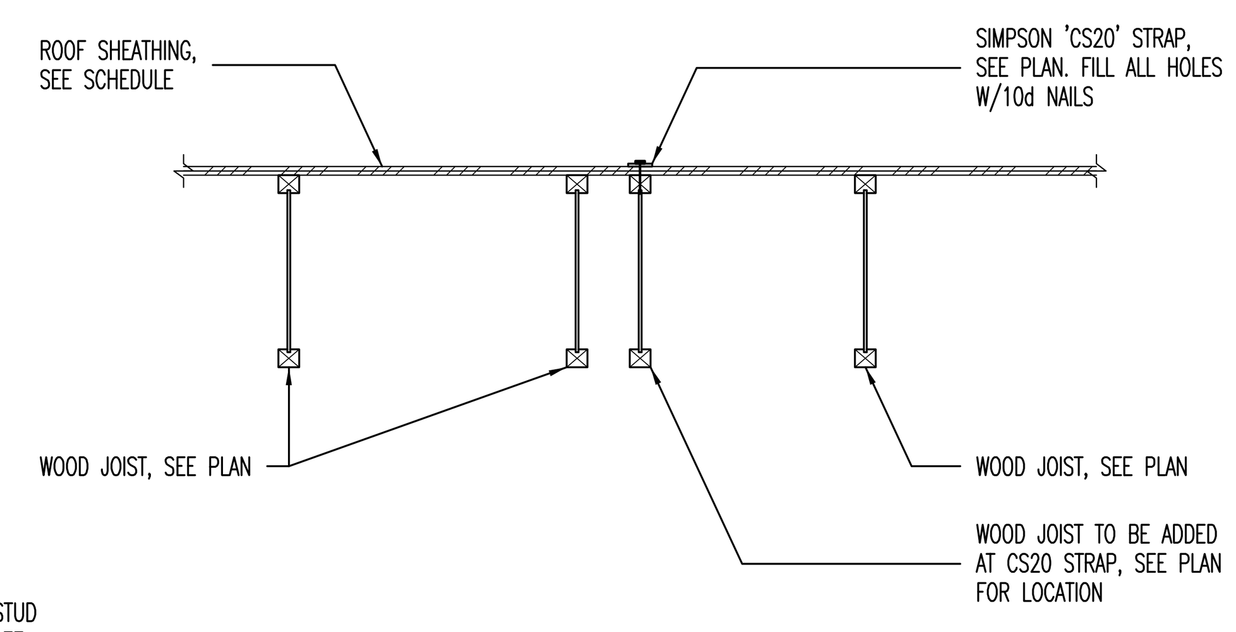
3 ROOF FRAMING [PLAN VIEW]
NO SCALE
05203_S-512



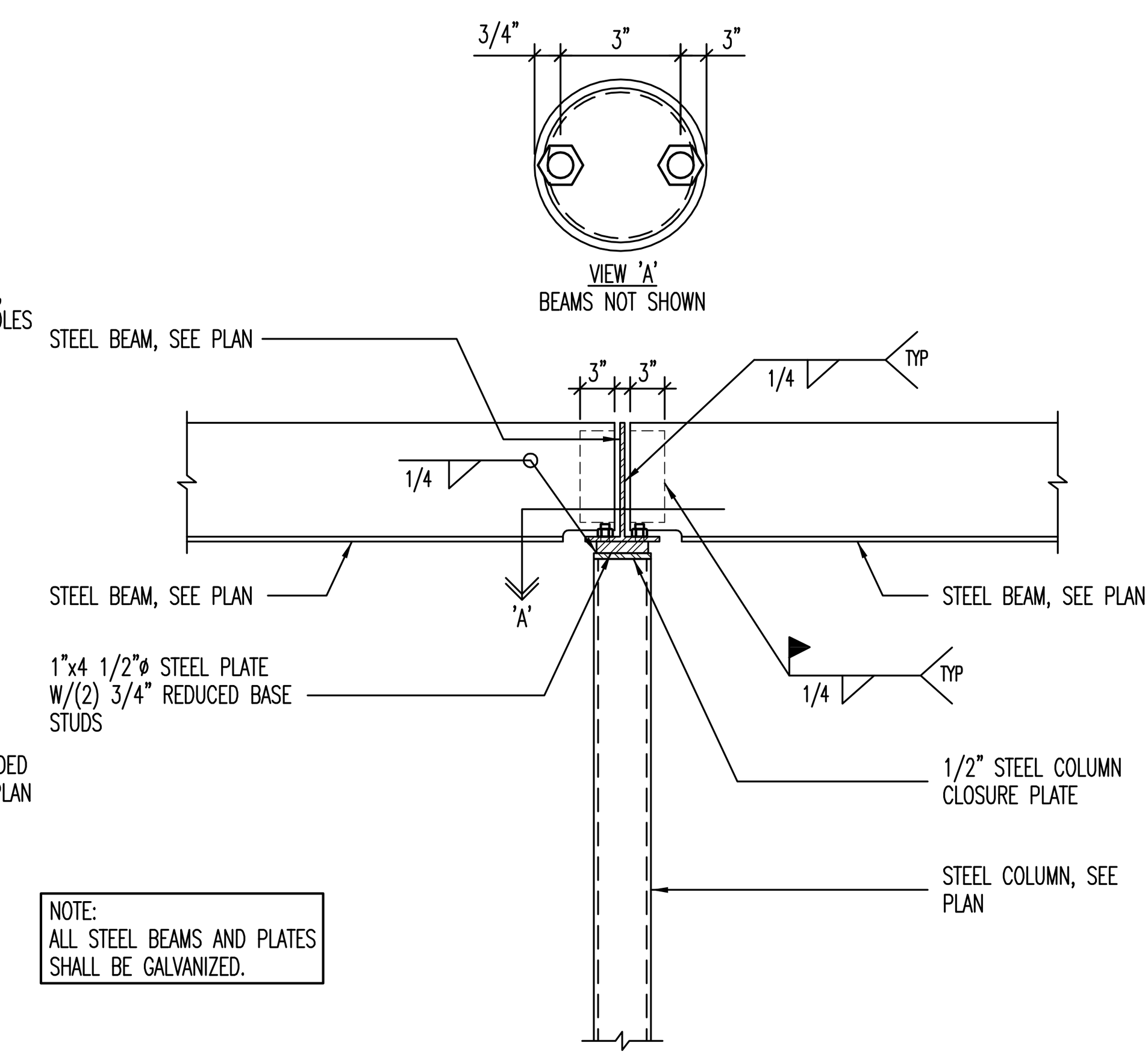
4 TYPICAL JOIST BEARING AT WOOD BEAM
NO SCALE
05203_S-512



5 TYPICAL JOIST BEARING AT WOOD STUD WALL
NO SCALE
05203_S-512

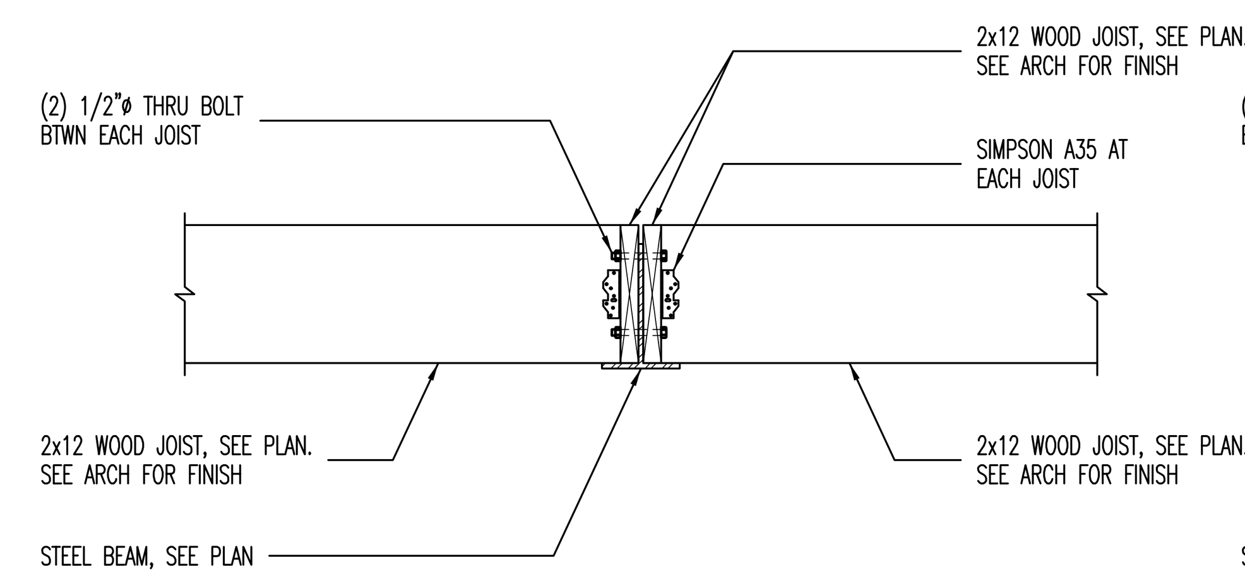


6 DRAG STRUT DETAIL
NO SCALE
05203_S-512



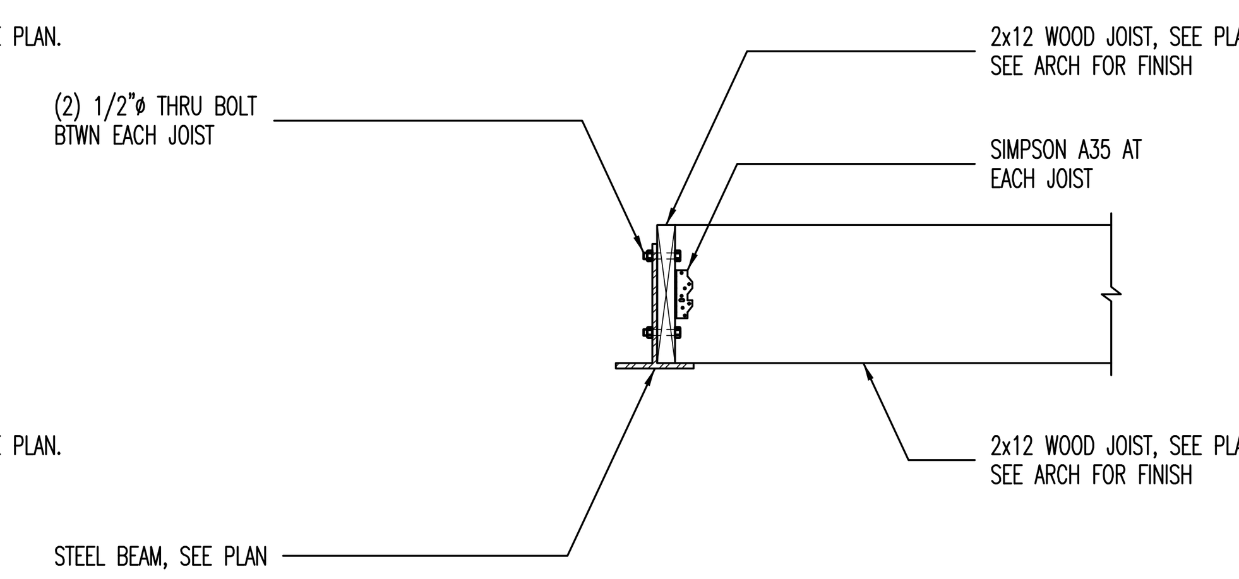
NOTE:
ALL STEEL BEAMS AND PLATES SHALL BE GALVANIZED.

7 CANOPY FRAMING DETAIL
NO SCALE
05203_S-512



NOTE:
ALL STEEL BEAMS AND CONNECTORS SHALL BE GALVANIZED.

8 CANOPY FRAMING DETAIL
NO SCALE
05203_S-512



NOTE:
ALL STEEL BEAMS AND CONNECTORS SHALL BE GALVANIZED.

9 CANOPY FRAMING DETAIL
NO SCALE
05203_S-512

BHB Project #
05203

dave robinson architects
4525 Wasatch Blvd., Suite 301
Salt Lake City, Utah 84124
801-272-0242

NEW VISITORS CENTER for GOBLIN VALLEY STATE PARK

UTAH STATE DIVISION OF FACILITIES AND CONSTRUCTION MANAGEMENT

Revisions	
Date	Item

11-29-05

"Engineering Results"
BHB Consulting Engineers
A Professional Corporation
244 West 300 North
Suite 202
Salt Lake City, Utah 84103
Phone: 801.355.5656
Fax: 801.355.5950
Email: bhb@bhbengineers.com

GOBLIN VALLEY
S-512

Q:\2005\05203\Struct\05203_S-512.dwg, 11/29/2005 11:50:57 AM, peggye

CONCRETE FOOTING SCHEDULE

MARK	WIDTH	LENGTH	DEPTH	REINFORCING CROSSWISE				REINFORCING LENGTHWISE				COMMENTS
				No.	SIZE	LENGTH	SPACING	No.	SIZE	LENGTH	SPACING	
FTS2.5	2'–6"	2'–6"	12"	3	#5	2'–0"	EQ	3	#5	2'–0"	EQ	THICKENED SLAB
FC1.5	1'–6"	CONT	12"	–	–	–	–	2	#5	CONT	EQ	
												.
FS3.0	3'–0"	3'–0"	12"	3	#5	2'–6"	EQ	3	#5	2'–6"	EQ	

CONCRETE FOOTING NOTES:
1. PLACE ALL FOOTING REINFORCING IN THE BOTTOM OF THE FOOTING WITH 3" CLEAR CONCRETE COVER (UNO).
2. TOP REINFORCING, WHERE OCCURS, SHALL BE PLACED IN THE TOP OF THE FOOTING WITH 2" MINIMUM CONCRETE COVER.
3. IF FOOTINGS ARE EARTH–FORMED, FOOTINGS SHALL BE 6" LONGER AND WIDER THAN SCHEDULED.
4. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.
5. SOME SCHEDULED FOOTINGS MAY NOT BE USED, SEE FOOTING AND FOUNDATION PLAN FOR FOOTING MARKS.

1 CONCRETE FOOTING SCHEDULE
NO SCALE

SCHED_CONC_FTG-C2500-S1500

CONCRETE WALL SCHEDULE

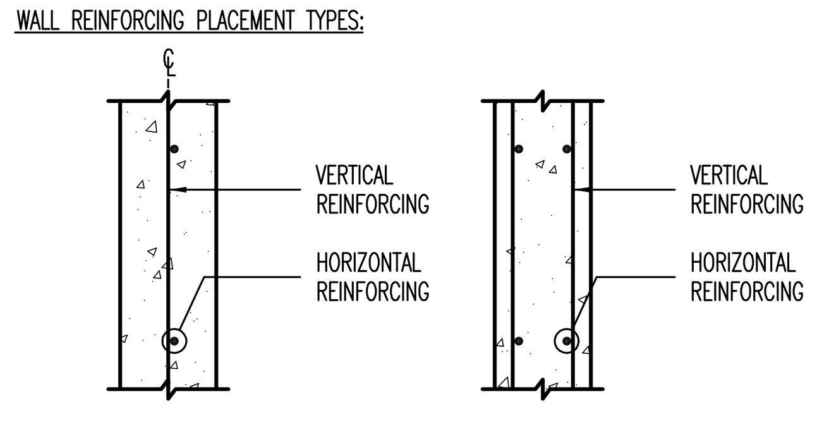
MARK	THICKNESS	REINFORCING			WALL TYPE	COMMENTS
		VERTICAL	HORIZONTAL	TOP AND BOTTOM		
CW–1	8"	#4 AT 18" O.C.	#4 AT 12" O.C.	(1) #5	A	.
CW–2	12"	#4 AT 18" O.C. E.F.	#4 AT 16" O.C. E.F.	(2) #5	B	

CONCRETE FOUNDATION WALL NOTES:
1. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.
2. CONCRETE FOUNDATION WALLS NOT DESIGNATED ON PLANS SHALL BE REINFORCED AS FOLLOWS:

THICKNESS	VERTICAL REINFORCING	HORIZONTAL REINFORCING
6"	#4 BARS AT 18" O.C.	#4 BARS AT 16" O.C.
8"	#4 BARS AT 18" O.C.	#4 BARS AT 12" O.C.
10"	#4 BARS AT 16" O.C.	#5 BARS AT 15" O.C.
12"	#4 BARS AT 18" O.C. E.F.	#4 BARS AT 16" O.C. E.F.

ABBREVIATIONS:
E.F. EACH FACE
I.F. INSIDE FACE
O.F. OUTSIDE FACE

WALL REINFORCING PLACEMENT TYPES:



2 CONCRETE WALL SCHEDULE
NO SCALE

SCHED_CONC_WALL-01

HANGER SCHEDULE

JOIST / BEAM	HANGER TYPE	FASTENERS			COMMENTS
		TOP	FACE	JOIST	
2x8 .	LB28	(2) 8d	(2) 8d	(2) 8d	FILL ALL HOLES
SINGLE 16" BCI .	ITT416	(4) 10d	(2) 10d	(2) 10d x 1 1/2"	
SINGLE 16" LVL .	LSSU210	–	(10) 10d	(7) 10d x 1 1/2"	
DOUBLE 16" LVL .	LSSU410	–	(18) 16d	(12) 10d x 1 1/2"	

HANGER NOTES:
1. ALL HANGERS SHALL BE "SIMPSON: STRONG–TIE CONNECTORS" OR APPROVED EQUAL.
2. SEE ARCHITECTURAL DRAWINGS FOR CUSTOM HANGERS AND HANGERS FINISHES.
3. ALL HANGERS SHALL BE AS SCHEDULED HERE, UNLESS NOTED OTHERWISE ON ARCHITECTURAL OR STRUCTURAL DRAWINGS.
4. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

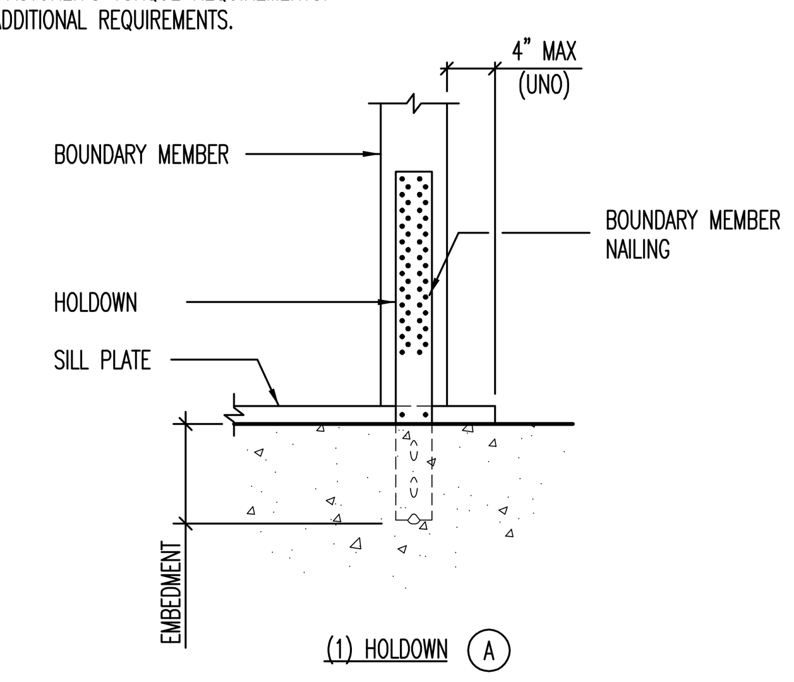
3 HANGER SCHEDULE
NO SCALE

SCHED_WOOD_HNGR-01

HOLDOWN SCHEDULE

SIMPSON HOLDOWN	BOUNDARY MEMBER	BOUNDARY MEMBER BOLTING/NAILING	'HB'	ANCHOR ROD	EMBEDMENT	DETAIL	COMMENTS
STHD10	(2) 2x6	(28) 16d SINKER	–	–	10"	A	.
STHD14	(2) 2x6	(38) 16d SINKER	–	–	14"	A	

HOLDOWN NOTES:
1. ANCHOR RODS SHALL BE HEADED BOLTS OR RODS THREADED WITH HEAVY HEX NUT.
2. INCREASE FOOTING DEPTH WHERE EMBEDMENT LENGTH PLUS 3" IS GREATER THAN FOOTING DEPTH SPECIFIED.
3. ALL HOLDOWNS SPECIFIED ARE "SIMPSON – STRONG TIE", SEE GENERAL STRUCTURAL NOTES FOR SUBSTITUTIONS.
4. LAG SCREWS SHALL NOT BE USED.
5. DO NOT OVER TORQUE NUTS; SEE MANUFACTURER'S TORQUE REQUIREMENTS.
6. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.



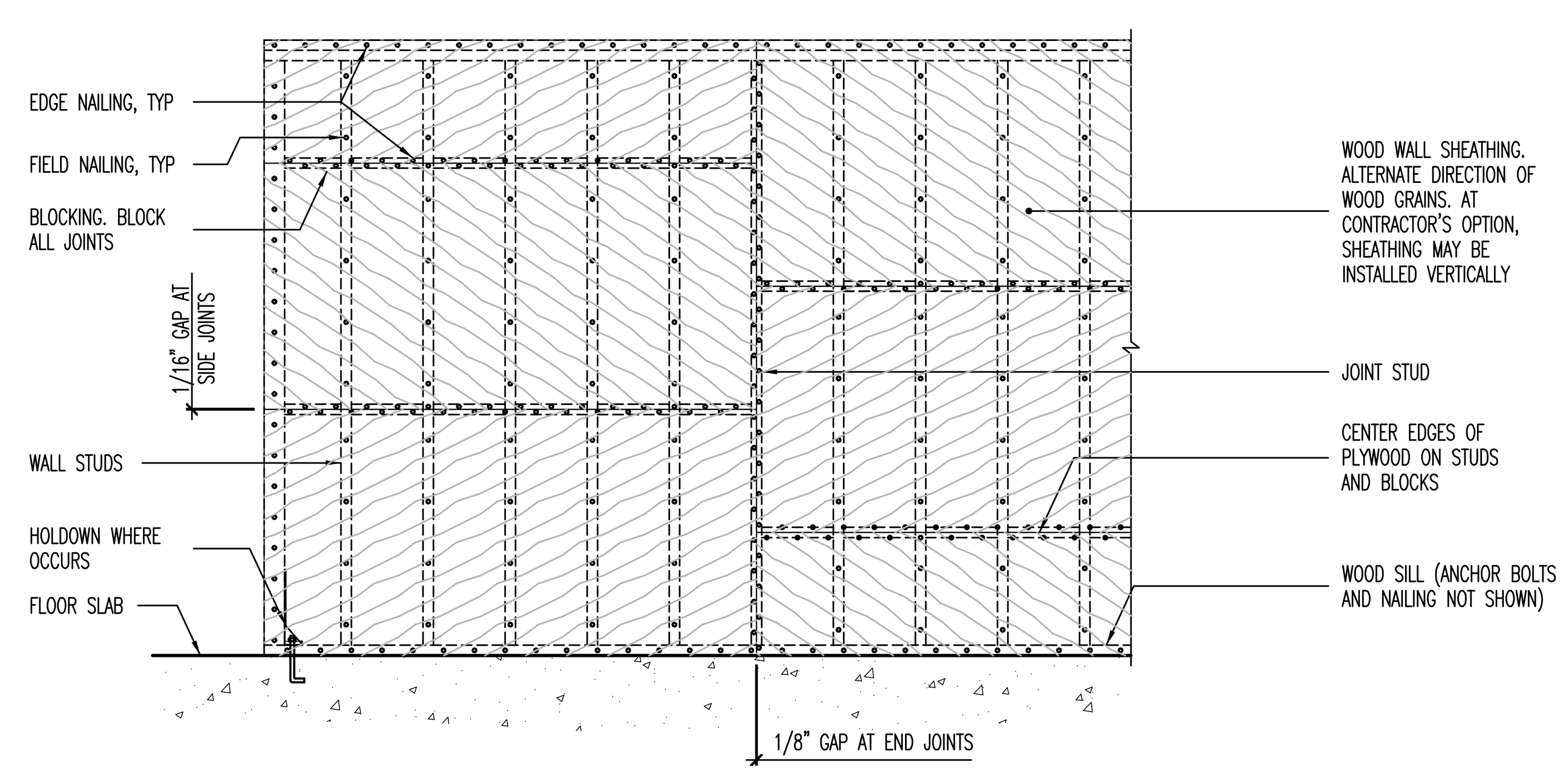
4 HOLDOWN SCHEDULE
NO SCALE

SCHED_WOOD_HDWN-01

WOOD SHEATHING SHEARWALL SCHEDULE

MARK	WALL FRAMING					WALL SHEATHING				COMMENTS
	STUDS	TOP PLATE	BOTTOM PLATE	BOTTOM PLATE ANCHORS	STUD & BLOCK AT JOINTS	THICKNESS	NAIL SIZE	EDGE NAIL	FIELD NAIL	
SW–1	2x6 AT 16" O.C.	(2) 2x6	2x6	5/8"ø A.B. AT 48" O.C.	2x	7/16"	8d	6" O.C.	12" O.C.	
SW–2	2x6 AT 16" O.C.	(2) 2x6	2x6	5/8"ø A.B. AT 32" O.C.	2x	7/16"	8d	4" O.C.	12" O.C.	

WOOD SHEATHING SHEARWALL NOTES:
1. PROVIDE 3/16"x2"x0'–2" WASHER PLATES AT BOLTS.
2. USE COMMON NAILS. GALVANIZED NAILS SHALL BE HOT–DIPPED OR TUMBLED.
3. ANCHOR BOLTS SHALL HAVE A 7" MINIMUM EMBEDMENT INTO CONCRETE AND TERMINATE WITH A 3" STANDARD 90° HOOK.
4. WHERE STUDS ARE CUT FOR PLACEMENT OF ANCHOR BOLTS OR OTHER ELEMENTS, AN ADJACENT STUD SHALL BE ADDED.
5. WHERE WOOD SHEATHING IS APPLIED TO BOTH SIDES OF A WALL AND NAIL SPACING IS LESS THAN 6" O.C. ON EITHER SIDE, PANEL JOINTS SHALL BE OFFSET TO FALL ON DIFFERENT FRAMING MEMBERS, OR FRAMING MEMBER SHALL BE 3" OR THICKER AND NAILS ON EITHER SIDE SHALL BE STAGGERED.
6. PRE–DRILLED HOLES ARE REQUIRED AT 20d NAILS.
7. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.



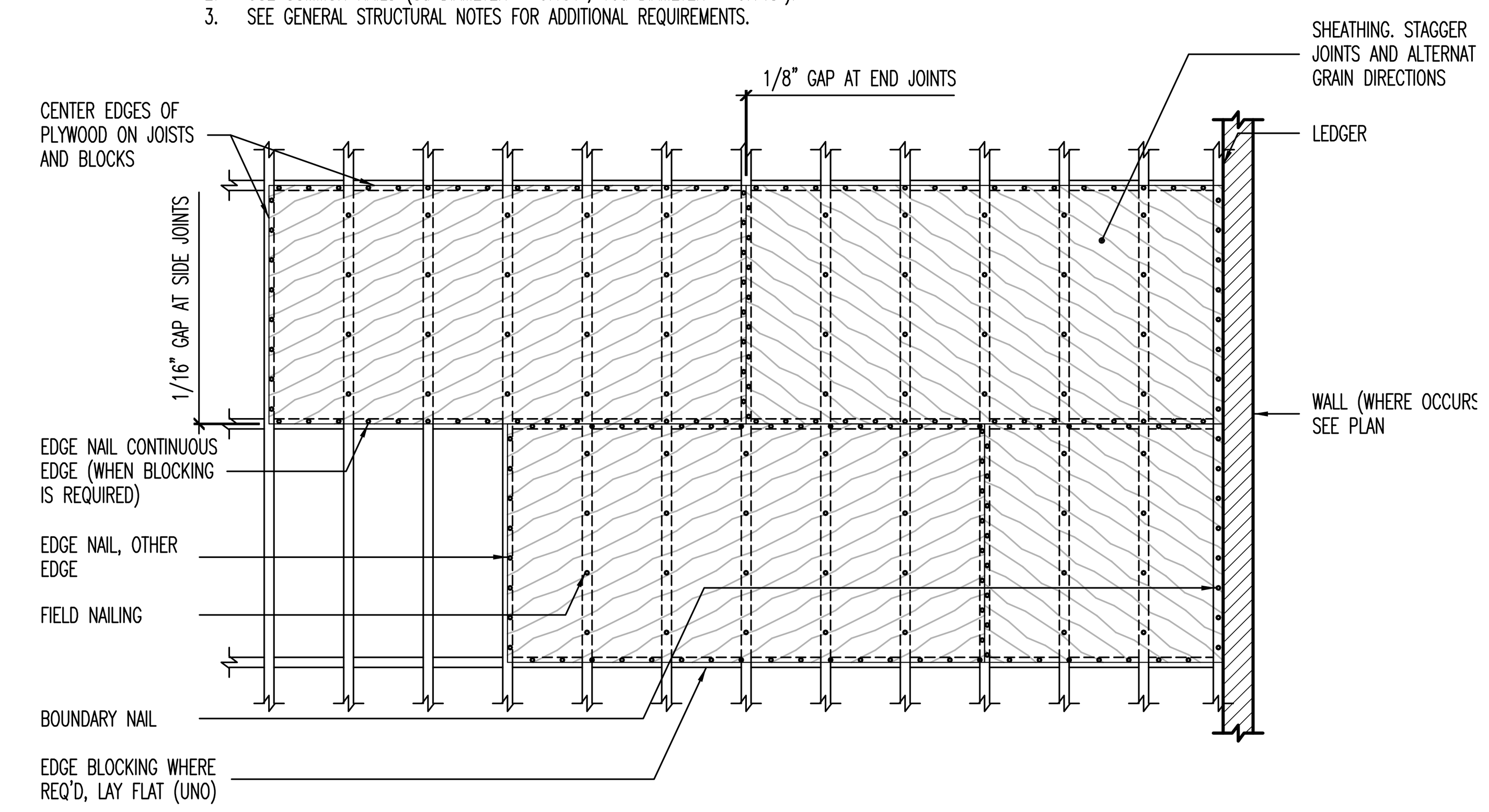
5 WOOD SHEATHING SHEARWALL SCHEDULE [ELEVATION VIEW]
NO SCALE

SCHED_WOOD_WALL-01

SHEATHING SCHEDULE AT ROOF

LOCATION	WOOD SHEATHING THICKNESS	NAIL SIZE	EDGE NAIL		FIELD NAIL	BOUNDARY NAIL	EDGE BLOCK	COMMENTS
			CONT EDGE	OTHER EDGE				
ROOF	19/32"	8d	6"	6"	12"	6"	NONE	.

SHEATHING NOTES:
1. MINIMUM NAIL PENETRATION INTO FRAMING: 8d–1 1/2", 10d– 1 5/8".
2. USE COMMON NAILS (8d DIAMETER = 0.131", 10d DIAMETER = 0.148").
3. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.



6 SHEATHING SCHEDULE AT ROOF AND FLOOR [PLAN VIEW]
NO SCA

SCHED_WOOD_SHEATH-01

MINIMUM NAILING SCHEDULE

CONNECTION	NAILING
SOLE PLATE TO JOIST OR BLOCKING, FACE NAIL	16d AT 16" O.C.
BRIDGING TO JOIST, TOENAIL EACH END	(2) 8d
BLOCKING BETWEEN JOIST OR RAFTERS TO TOP PLATE, TOE NAIL	(3) 8d
RIM JOIST TO TOP PLATE, TOE NAIL	8d AT 6" O.C.
COLLAR TIE TO RAFTER, FACE NAIL	(3) 10d
JACK RAFTER TO HIP, TOE NAIL	(3) 10d
FACE NAIL	(2) 16d
ROOF RAFTER TO 2x RIDGE BEAM, TOE NAIL	(2) 16d
FACE NAIL	(2) 16d
JOIST TO BAND JOIST, FACE NAIL	(3) 16d
LEDGER STRIP, FACE NAIL	(3) 16d
TOP PLATE TO STUD, END NAIL	(2) 16d
DOUBLE STUDS, FACE NAIL	(2) 16d
DOUBLED TOP PLATES, FACE NAIL	16d AT 24" O.C.
TOP PLATES, LAPS & INTERSECTION, FACE NAIL	16d AT 16" O.C.
CONTINUOUS HEADER, TWO PIECES	(2) 16d
CEILING JOISTS TO PLATE, TOENAIL	16d AT 16" O.C. ALONG EACH EDGE
CONTINUOUS HEADER TO STUD, TOENAIL	(3) 8d
CEILING JOISTS, LAPS OVER PARTITIONS, FACE NAIL	(4) 8d
CEILING JOISTS TO PARALLEL RAFTERS, FACE NAIL	(3) 16d
RAFTER TO PLATE, TOENAIL	(3) 16d
1" BRACE TO EACH STUD & PLATE, FACE NAIL	(3) 8d
BUILT–UP CORNER STUDS	(2) 8d
BUILT–UP GIRDER & BEAMS	20d AT 32" O.C. AT TOP, BOTTOM, AND STAGGERED. (2) 20d AT ENDS AND AT EACH SPLICE.
PLYWOOD & PARTICLEBOARD:	
SUBFLOOR, ROOF & WALL SHEATHING (TO FRAMING)*	
1/2" AND LESS	8d
19/32" – 3/4"	8d OR 10d
7/8" – 1"	8d
1 1/8" – 1 1/4"	8d OR 10d
COMBINATION SUBFLOOR–UNDERLAYMENT (TO FRAMING)*	
3/4" AND LESS	6d
7/8" – 1"	8d
1 1/8" – 1 1/4"	8d OR 10d

* NAILS SPACED AT 6" O.C. AT EDGES, 12" O.C. AT INTERMEDIATE SUPPORTS (EXCEPT WHERE SPANS ARE 48" OR MORE, THEN SPACE AT 6" O.C. AT SUPPORTS). FOR NAILING OF DIAPHRAGMS AND SHEAR WALLS, REFER TO SHEARWALL SCHEDULE.

MINIMUM NAILING NOTES:
1. NAILING SCHEDULE IS PER TABLE 2304.9.1 OF THE I.B.C. 2003.
2. NAILING REQUIREMENTS SHOWN HERE DO NOT REPLACE HARDWARE SHOWN ON THE PLANS OR DETAILS.
3. ALL NAILS USED ARE COMMON NAILS.
4. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

7 MINIMUM NAILING SCHEDULE
NO SCA

SCHED_WOOD_NAIL-01

BHB Project #
05203

dave robinson architects
4525 Wasatch Blvd., Suite 301
Salt Lake City, Utah 84124
801-272-0242

NEW VISITORS CENTER for GOBLIN VALLEY STATE PARK

UTAH STATE DIVISION OF FACILITIES AND CONSTRUCTION MANAGEMENT

Revisions	
Date	Item

11-29-05

"Engineering Results"
BHB Consulting Engineers
A Professional Corporation
244 West 300 North
Suite 202
Salt Lake City, Utah 84103
Phone: 801.355.5656
Fax: 801.355.5950
Email: bhb@bhbengineers.com

GOBLIN VALLEY
S-601

Q:\2005\05203\Struct\05203_S-601.dwg, 11/29/2005 11:51:41 AM, peggye

EVAPORATIVE COOLER SCHEDULE

SYMBOL	CHAMPION MODEL	DISCHARGE	FAN CFM	FAN IN. WC.	ELECTRICAL VOLTS	ELECTRICAL PH	ELECTRICAL HP	OPERATING WEIGHT LB.	COMMENTS
EC-1	75/85 DD	DOWN	5,144	0.3	115	1	3/4	420	1,2,3

1. 2 SPEED FAN MOTOR
2. PROVIDE 6 POSITION CONTROL SWITCH
3. PROVIDE ROOF CURB

EXHAUST FAN SCHEDULE

SYMBOL	ILK MODEL NUMBER	SERVICE	FAN CAPACITY CFM	FAN CAPACITY SP IN. WG	FAN CAPACITY RPM	MOTOR VOLTS	MOTOR PHASE	MOTOR WATTS	SONES	COMMENTS
EF-1	CF684	TOILET ROOM	77	0.25	1280	120	1	48	3.6	1,2

1. WITH BACKDRAFT DAMPER
2. PROVIDE WALL CAP

RADIANT HEATER SCHEDULE

SYMBOL	EMPIRE MODEL	FUEL	INPUT MBH	CABINET SIZE W, H, D	ELECTRICAL VOLTS	ELECTRICAL PH	ELECTRICAL HP	WEIGHT LB.	COMMENTS
RH-1	SR-10T	PROPANE	10,000	11-7/8"x6.5"22"	---	---	---	18	1,2,3
RH-2	SR-18T	PROPANE	18,000	18"X6.5"x22"	---	---	---	27	1,2,3
RH-3	SR-30T	PROPANE	30,000	24.5"x6.5"22"	---	---	---	35	1,2,3

1. INSTALL ACCORDING TO MANUFACTURER'S RECOMMENDATIONS
2. PROVIDE CLEARANCES REQUIRED BY MANUFACTURER
3. PROVIDE TEMPERATURE CONTROLS

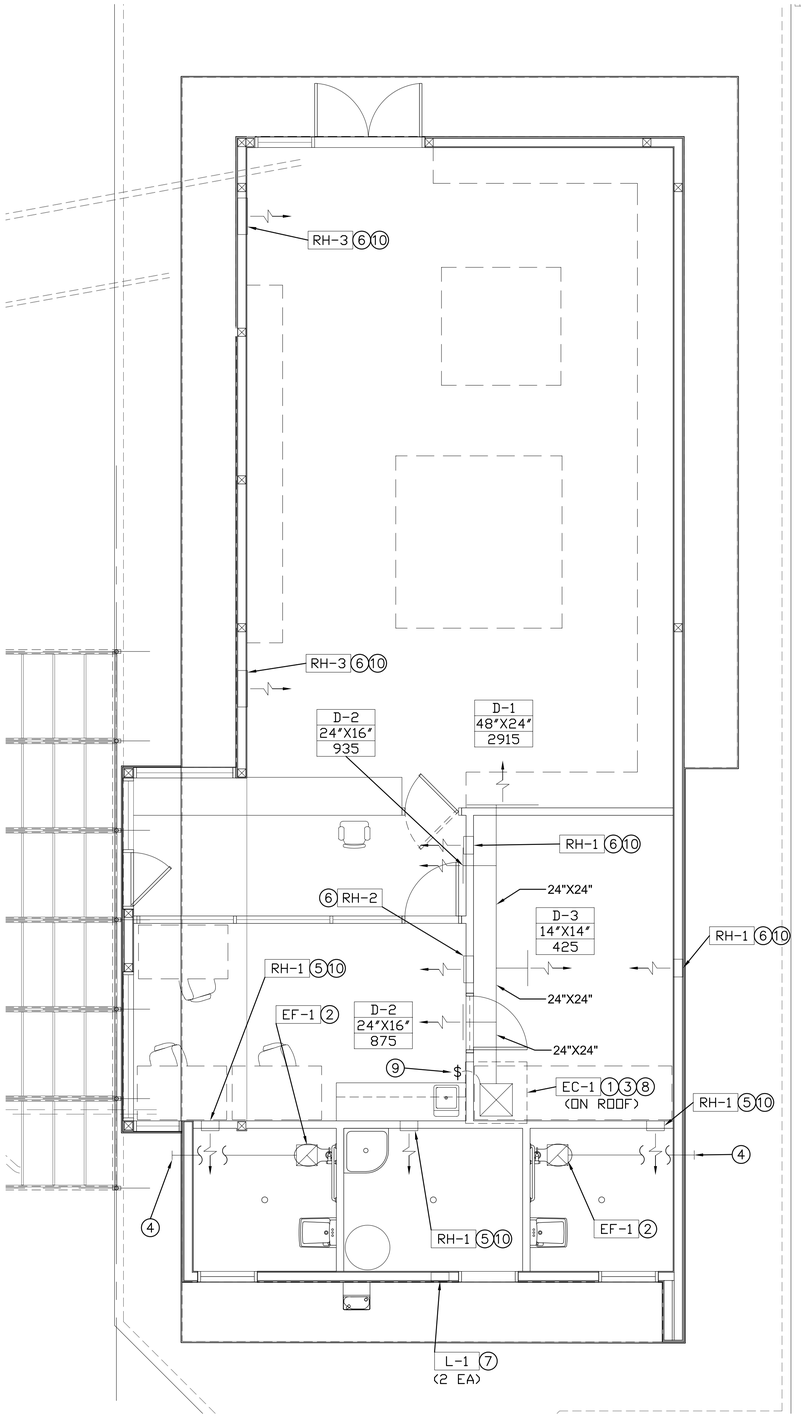
DIFFUSER, REGISTER & GRILLE SCHEDULE

SYMBOL	MAX CFM	NECK SIZE	TYPE	TITUS MODEL	PATTERN	REMARKS
D-1	3050	48"x24"	WALL MOUNT	272RS	DOUBLE DEF	1
D-2	980	24"x16"	WALL MOUNT	272RS	DOUBLE DEF	1
D-3	490	14"x14"	WALL MOUNT	272RS	DOUBLE DEF	1
D-1	3050	48"x24"	WALL MOUNT	272RS	DOUBLE DEF	1

1. WITH OPPOSED BLADE VOLUME DAMPER

LOUVER SCHEDULE

SYMBOL	AWV MODEL NUMBER	SIZE WIDTH INCHES	SIZE HEIGHT INCHES	SIZE DEPTH INCHES	FREE AREA, SQ FT	BLADES	FINISH	COMMENTS
L-1	LE-31	12	12	6	0.24	FIXED	NONE	---



MECHANICAL HVAC PLAN
SCALE: 1/4" = 1'-0"

GENERAL NOTES MECHANICAL:

1. ALL WORK SHALL CONFORM TO THE 2003 EDITION OF THE "INTERNATIONAL MECHANICAL CODE."
2. DUCT WORK SHALL CONFORM TO THE LATEST EDITION OF THE "HVAC DUCT CONSTRUCTION STANDARDS" BY SMACNA.
3. MAXIMUM FLEXIBLE DUCT LENGTH AT EACH DIFFUSER SHALL BE NO GREATER THAN 5'-0".
4. ALL RECTANGULAR SUPPLY AIR DUCTS ARE TO HAVE 1" ACOUSTICAL INSULATION AT THE INSIDE OF THE DUCT.
5. COORDINATE DUCTWORK ABOVE CEILING AND ALL MECHANICAL EQUIPMENT WITH PLUMBING CONTRACTOR, ELECTRICAL CONTRACTOR AND GENERAL CONTRACTOR. SPACE CONFLICTS SHALL BE RESOLVED PRIOR TO INSTALLATION PRIOR TO INSTALLATION.
6. ALL RECTANGULAR ELBOWS GREATER THAN 45 DEGREES REQUIRE TURNING VANES.
7. ALL SUPPLY BRANCH DUCTS SHALL HAVE A BALANCING DAMPER.
8. PROVIDE 1" RIGID INSULATION BEHIND THERMOSTAT WHERE THERMOSTAT IS ON OUTSIDE WALL.
9. HVAC SYSTEM IS TO BE BALANCED BY A CERTIFIED BALANCING COMPANY.
10. ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS
11. ALL REFRIGERATION CIRCUITS SHALL HAVE TXV VALVES.
12. ALL DUCT DIMENSIONS INDICATE CLEAR DISTANCE AT THE INSIDE OF THE DUCT.

KEY NOTES:

1. EVAPORATIVE COOLER:
   - RUN ¼" DIA TUBE FROM NEAREST COLD WATER SUPPLY
   - PROVIDE ROOF CURB
   - SEAL CURB TO ROOF
2. EXHAUST FAN:
   - SEE ELECTRICAL DRAWINGS FOR EXHAUST FAN CONTROLS
   - PROVIDE BACKDRAFT DAMPER
   - PROVIDE WALL CAP
3. PROVIDE TURNING VANES IN DUCT
4. PROVIDE WALL CAP
5. MOUNT BOTTOM OF RADIANT HEATER 12" ABOVE FINISHED FLOOR
6. MOUNT BOTTOM OF RADIANT HEATER 6" ABOVE FINISHED FLOOR
7. LOUVER:
   - MOUNT ONE LOUVER WITHIN 12" OF THE CEILING
   - MOUNT ONE LOUVER WITHIN 12" OF FINISHED FLOOR
   - LINE OPENINGS WITH SHEET METAL AND SEAL WITH CAULKING
8. IT IS UNDERSTOOD THAT WHEN THE EVAPORATIVE COOLER COMES ON AT LEAST ONE DOOR WILL BE OPEN TO RELIEVE THE EXHAUST AIR
9. CONTROLS FOR THE EVAPORATIVE COOLER
10. COORDINATE LOCATION WITH OWNER'S REPRESENTATIVE IN FIELD

DRA Project #

dave robinson architects
4525 Was Blvd.,
Salt Lake City, Utah 84124

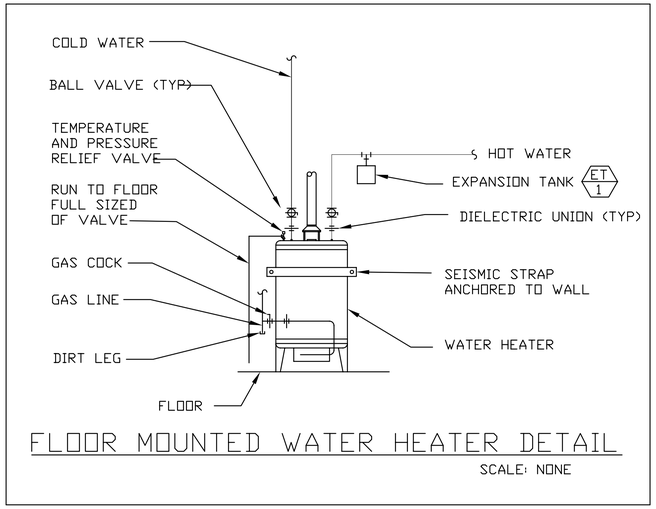
JARED R THOMAS & ASSOC.
1399 EAST 7240 SOUTH
SALT LAKE CITY, UTAH 84121
PHONE/FAX: 947-7652 - CELL 971-3989

NEW VISITORS CENTER for
GOBLIN VALLEY STATE PARK
UTAH STATE DIVISION OF FACILITIES AND CONSTRUCTION MANAGEMENT

Revisions

Date	Item

M-1

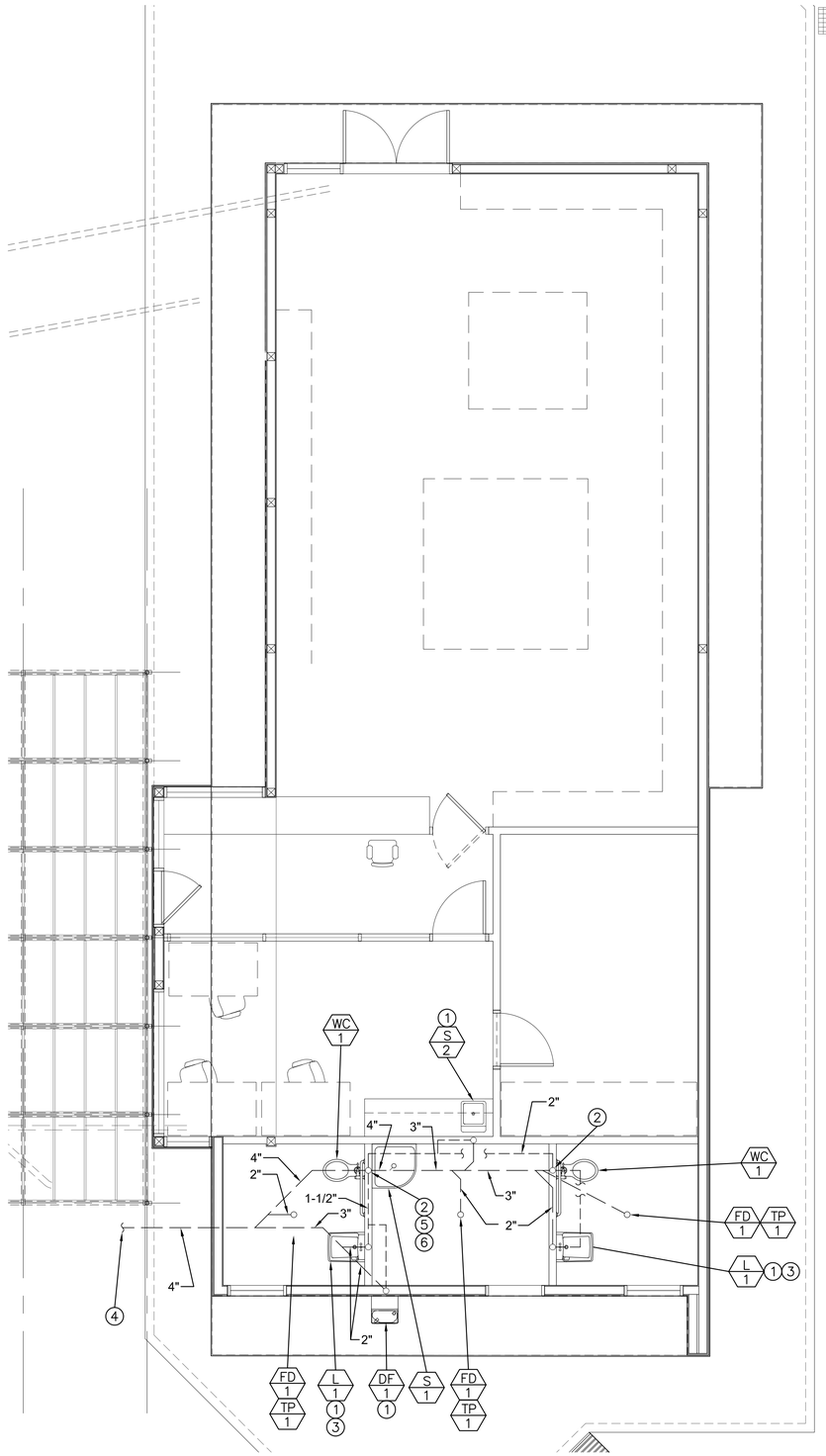


FLOOR MOUNTED WATER HEATER DETAIL

SCALE: NONE

PLUMBING SCHEDULE

SYMBOL	FIXTURE	WASTE	C.W.	H.W.	DESCRIPTION
EWC 1	DRINKING FOUNTAIN	1-1/2"	1/2"	---	DRINKING FOUNTAIN (ADA) SPECIFIED BY OWNER
ET 1	EXPANSION TANK	---	3/4"	---	WATTS MODEL NUMBER DET-25
FD 1	FLOOR DRAIN	2"	---	---	FLOOR DRAIN ZURN MODEL: ZN415-75-P, TAPERED FOR TRAP PRIMER
L 1	LAVATORY (ADA) WALL MOUNTED	1-1/2"	1/2"	1/2"	LAVATORY, WALL MOUNTED ADA COMPLIANT, KOHLER MODEL: K-2032 WRIST BLADE LEVER HANDLES KOHLER MODEL K7404-4A WITH TRAP AND SUPPLY. OR SPECIFIED BY OWNER
S 1	SERVICE SINK	3"	1/2"	1/2"	SERVICE SINK, 28" X28" KOHLER MODEL 6710 VALVES: CHICAGO 897CP WITH WALL BRACKET, BRACE AND PAIL HOOK OR SPECIFIED BY OWNER
S 2	SPECIALTY SINK	2"	1/2"	1/2"	SPECIALTY SINK SPECIFIED BY OWNER
TP 1	TRAP PRIMER	---	1/2"	---	TRAP PRIMER ZURN MODEL Z-1022 (REQUIRED FOR ALL TOILET ROOM FLOOR DRAINS)
WC 1	WATER CLOSET (ADA)	3"	1/2"	---	WATER CLOSET, ADA COMPLIANT PRESSURE ASSIST FLUSH KOHLER MODEL K-3544 OPEN SEAT - BEMIS MODEL 1955C
WH 1	WATER HEATER	---	3/4"	3/4"	WATER HEATER, A.O. SMITH MODEL GCV-30, 30 GALLON CAPACITY, PROPANE FIRED, 40,000 BTU/HR INPUT, 41 GAL/HR AT 90 F TEMP RISE UL LISTED. 150 PSIG WORKING PRESSURE.



PLUMBING WASTE & VENT PLAN

SCALE: 1/4" = 1'-0"

GENERAL NOTES PLUMBING:

1. ALL PLUMBING SHALL CONFORM TO THE 2003 EDITION OF THE "INTERNATIONAL PLUMBING CODE."
2. ALL PLUMBING SHALL CONFORM TO THE LATEST ADOPTED EDITION OF "THE INTERNATIONAL FUEL GAS CODE."
3. PLUMBING CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS FOR HIS WORK AND PROVIDE ALL TESTS REQUIRED BY THE LOCAL BUILDING AUTHORITIES.
4. INSULATE ALL HOT WATER AND COLD WATER PIPING INSIDE OF THE BUILDING.
5. ALL FIXTURES SHALL HAVE SHUTOFF VALVES.
6. EACH CLEAN-OUT SHALL BE READILY ACCESSIBLE AND LOCATED TO SERVE IT'S INTENDED PURPOSE.
7. ALL PIPING ALONG EXTERIOR WALLS SHALL RUN ALONG THE WARM SIDE OF THE INSULATION
8. COORDINATE ALL PIPING LOCATIONS WITH THE GENERAL CONTRACTOR, MECHANICAL CONTRACTOR AND ELECTRICAL CONTRACTOR. SPACE CONFLICTS SHALL BE RESOLVED PRIOR TO INSTALLATION.
9. PROVIDE PROPER PROVISIONS FOR EXPANSION OR MOVEMENT OF ANY PIPING.
10. PROVIDE A PRESSURE REGULATOR WHERE THE WATER LINE ENTERS THE BUILDING.
11. PROVIDE A LEVER HANDLE GAS COCK IN THE BRANCH PIPING FOR EACH GAS FIRED APPLIANCE.
12. ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
13. PROVIDE GAS PRESSURE REGULATOR(S) AS REQUIRED, WHERE THE SUPPLY GAS LINE PRESSURE IS GREATER THAN 4 OZ.
14. FIRE CAULK ALL PLUMBING PENETRATIONS THROUGH FIRE WALLS.

PLUMBING MATERIALS:

1. DRAIN & VENT: PVC, SCH 40, STANDARD WEIGHT.
2. HOT AND COLD WATER PIPING: HARD-DRAWN COPPER TUBE, TYPE "L" PER ASTM B88-88A, MADE UP WITH WROUGHT OR FORGED COPPER SWEAT FITTINGS. UNDER SLABS TYPE "K" SOFT TEMPERED COPPER TUBE WITHOUT JOINTS. SOLDER: LEAD-FREE, CANFIELD "100% WATER SAFE" OR EQUAL.
3. GAS PIPING: SCHEDULE 40 BLACK PIPE INDOORS, GALVANIZED OUTDOORS.

KEY NOTES:

1. PROVIDE 1-½" INDIVIDUAL VENT FOR FIXTURE
2. PROVIDE 2" CIRCUIT VENT
3. PROVIDE THERMO INSULATION PER ANSI REQUIREMENTS
4. EXTEND WASTE LINE FIVE-FEET BEYOND BUILDING. CONTINUATION BY OTHERS
5. RUN 3" VENT THRU ROOF
6. VENT THRU ROOF IS TO BE 10 FEET (MINIMUM) FROM ANY OUTSIDE AIR INTAKE

DRA Project #

dave robinson architects
4525 Wasatch Blvd.,
Salt Lake City, Utah 84124

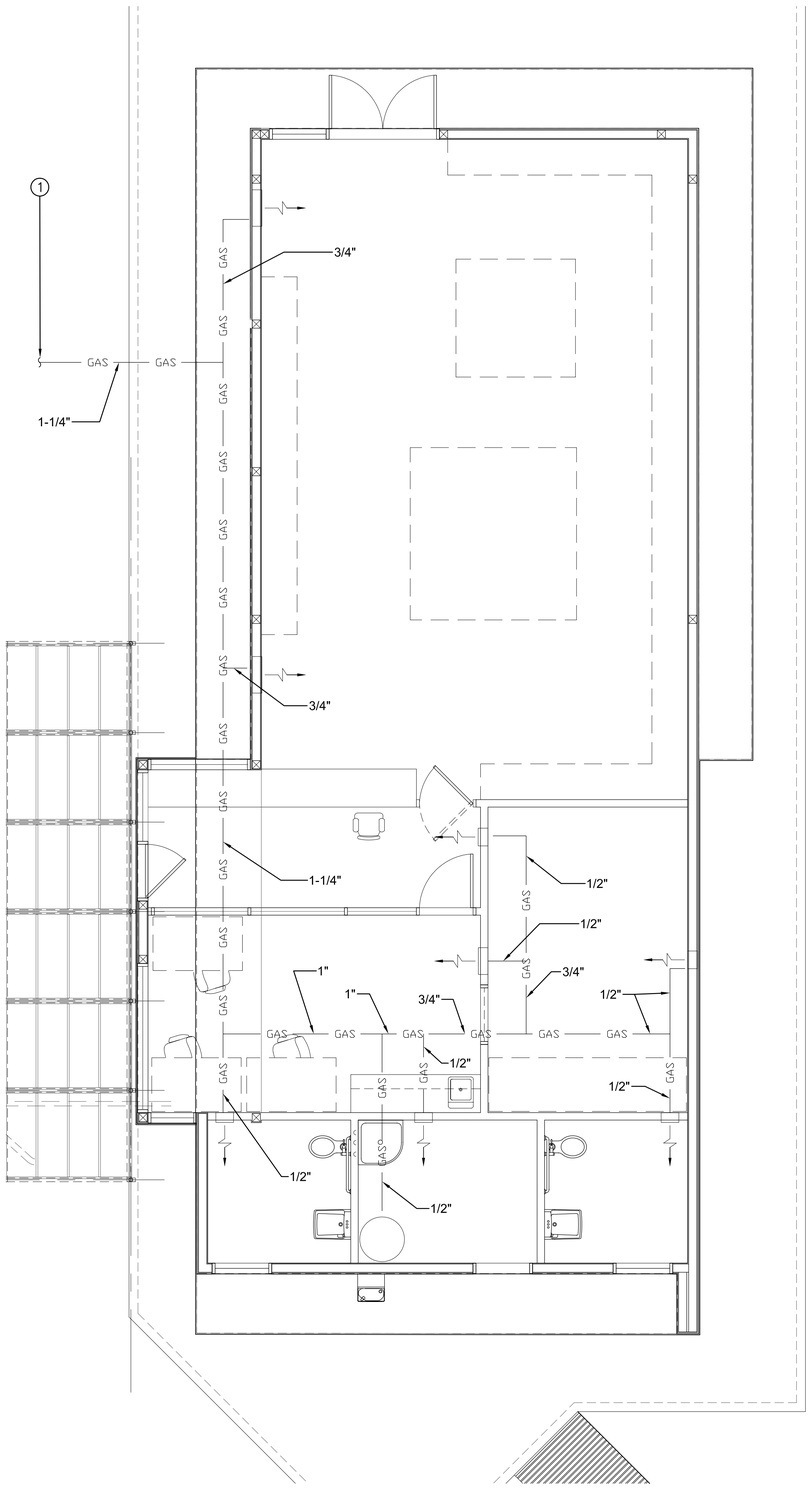
JARED R THOMAS & ASSOC.
1399 EAST 7240 SOUTH
SALT LAKE CITY, UTAH 84121
PHONE/FAX: 947-7652 - CELL 971-3989

NEW VISITORS CENTER for
GOBLIN VALLEY STATE PARK

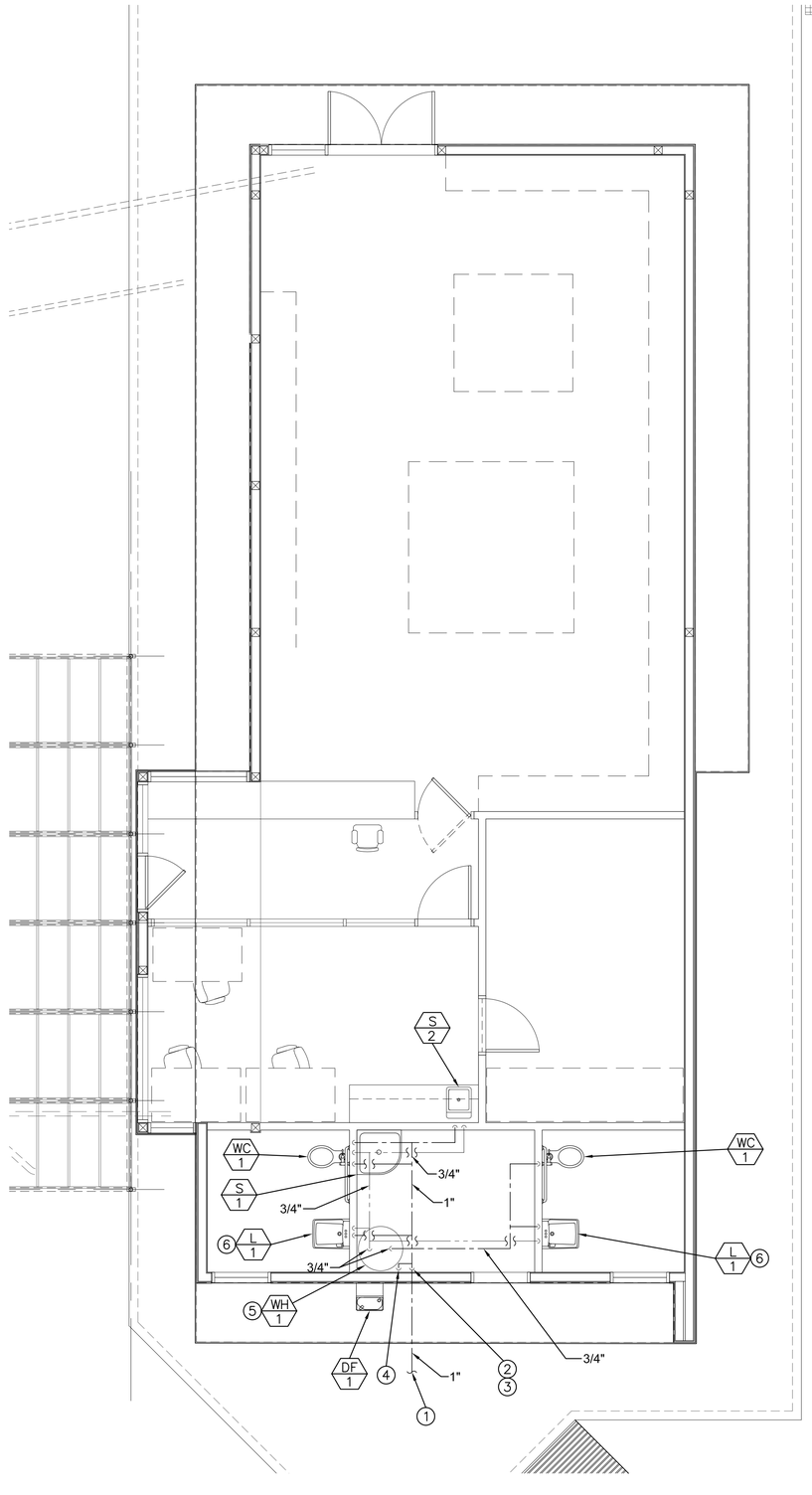
UTAH STATE DIVISION OF FACILITIES AND CONSTRUCTION MANAGEMENT

Revisions	
Date	Item

P-1



PROPANE (LPG) SUPPLY PLAN
SCALE: 1/4" = 1'-0"



PLUMBING SUPPLY PLAN
SCALE: 1/4" = 1'-0"

GENERAL NOTES PLUMBING:

1. ALL PLUMBING SHALL CONFORM TO THE 2003 EDITION OF THE "INTERNATIONAL PLUMBING CODE."
2. ALL PLUMBING SHALL CONFORM TO THE LATEST ADOPTED EDITION OF "THE INTERNATIONAL FUEL GAS CODE."
3. PLUMBING CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS FOR HIS WORK AND PROVIDE ALL TESTS REQUIRED BY THE LOCAL BUILDING AUTHORITIES.
4. INSULATE ALL HOT WATER AND COLD WATER PIPING INSIDE OF THE BUILDING.
5. ALL FIXTURES SHALL HAVE SHUTOFF VALVES.
6. EACH CLEAN-OUT SHALL BE READILY ACCESSIBLE AND LOCATED TO SERVE IT'S INTENDED PURPOSE.
7. ALL PIPING ALONG EXTERIOR WALLS SHALL RUN ALONG THE WARM SIDE OF THE INSULATION
8. COORDINATE ALL PIPING LOCATIONS WITH THE GENERAL CONTRACTOR, MECHANICAL CONTRACTOR AND ELECTRICAL CONTRACTOR. SPACE CONFLICTS SHALL BE RESOLVED PRIOR TO INSTALLATION.
9. PROVIDE PROPER PROVISIONS FOR EXPANSION OR MOVEMENT OF ANY PIPING.
10. PROVIDE A PRESSURE REGULATOR WHERE THE WATER LINE ENTERS THE BUILDING.
11. PROVIDE A LEVER HANDLE GAS COCK IN THE BRANCH PIPING FOR EACH GAS FIRED APPLIANCE.
12. ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
13. PROVIDE GAS PRESSURE REGULATOR(S) AS REQUIRED, WHERE THE SUPPLY GAS LINE PRESSURE IS GREATER THAN 4 OZ.
14. FIRE CAULK ALL PLUMBING PENETRATIONS THROUGH FIRE WALLS.

PLUMBING MATERIALS:

1. DRAIN & VENT: PVC, SCH 40, STANDARD WEIGHT.
2. HOT AND COLD WATER PIPING: HARD-DRAWN COPPER TUBE, TYPE "L" PER ASTM B88-88A, MADE UP WITH WROUGHT OR FORGED COPPER SWEAT FITTINGS. UNDER SLABS TYPE "K" SOFT TEMPERED COPPER TUBE WITHOUT JOINTS. SOLDER: LEAD-FREE, CANFIELD "100% WATER SAFE" OR EQUAL.
3. GAS PIPING: SCHEDULE 40 BLACK PIPE INDOORS, GALVANIZED OUTDOORS.

KEY NOTES:

1. EXTEND SUPPLY WATER LINE FIVE-FEET BEYOND BUILDING. CONTINUATION BY OTHERS
2. SUPPLY WATER LINE RISES UP
3. PROVIDE PRESSURE REDUCING VALVE
4. RUN SUPPLY WATER LINE TO DRINKING FOUNTAIN AT WARM SIDE OF INSULATION
5. SEE WATER HEATER DETAIL
6. PROVIDE THERMO INSULATION UNDER ADA LAVATORY PER ANSI REQUIREMENTS
7. EXTEND PROPANE (LPG) LINE TO EXISTING STORAGE TANK
8. PROPANE (LPG) LINE IS SIZED FOR 4 OZ LINE PRESSURE.

DRA Project #

dave robinson architects
4525 Wasatch Blvd.,
Salt Lake City, Utah 84124

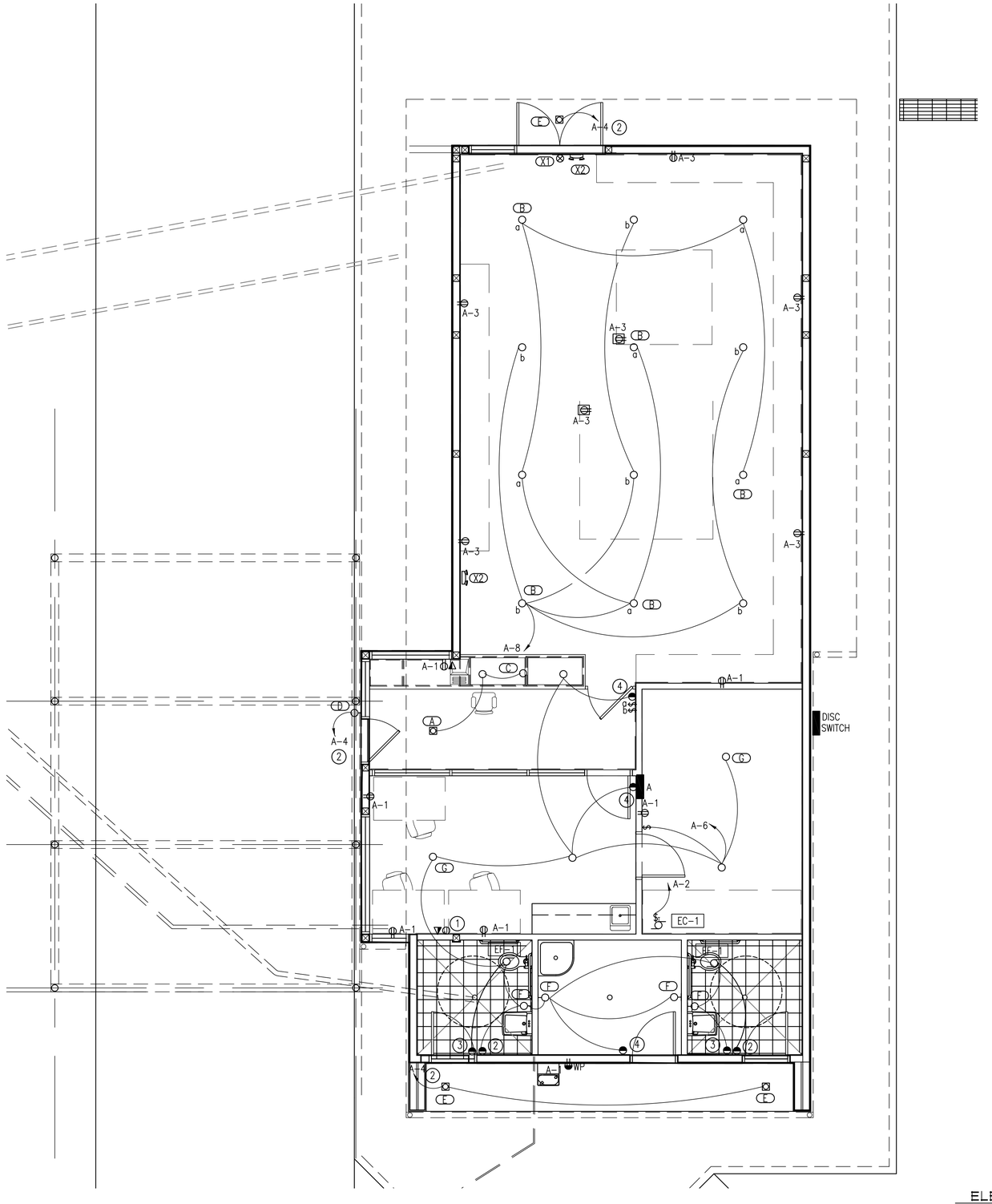
JARED R THOMAS & ASSOC.
1399 EAST 7240 SOUTH
SALT LAKE CITY, UTAH 84121
PHONE/FAX: 947-7652 - CELL 971-3989

NEW VISITORS CENTER for
GOBLIN VALLEY STATE PARK

UTAH STATE DIVISION OF FACILITIES
AND CONSTRUCTION MANAGEMENT

Revisions	
Date	Item

P-2



REFERENCE NOTES

1. PROVIDE 1"C TO ROOF FOR ANTENNA CONNECTION.
2. CIRCUIT THRU PHOTOCELL/MOTION SENSOR.
3. PROVIDE MOTION SENSOR WITH TIMEDELAY OFF. MOUNT IN CEILING OR HIGH ON WALL.
4. PROVIDE MOTION SENSOR WALL SWITCH WITH ON/OFF SWITCH AND MOTION SENSOR OFF.

NORTH

ELECTRICAL PLAN

SCALE: 1/4" = 1'-0"

DRA Project #

dave robinson architects
4525 Wasatch Blvd., Suite 301
Salt Lake City, Utah 84124 801-272-0242

NEW VISITORS CENTER for GOBLIN VALLEY STATE PARK

UTAH STATE DIVISION OF FACILITIES AND CONSTRUCTION MANAGEMENT

Revisions	
Date	Item
11-18-05	

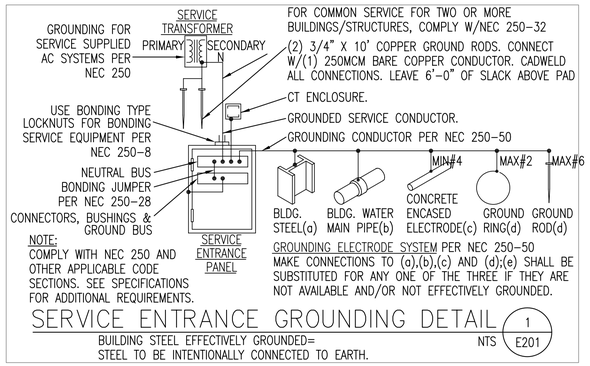
GOBLIN VALLEY

E-101

LIGHT FIXTURE SCHEDULE

	MANUFACTURER	CATALOG NO.	MOUNTING	LAMPS	DESCRIPTION
A	PATHWAY	FF8142T-C8T	RECESSED	1-42WT	7" DOWNLIGHT WITH CLEAR ALZACK REFLECTOR
B	PATHWAY	P2C-42T-E4-S-SLOPED CEILING *	PENDANT	1-42WT	12" ROUND PENDANT MOUNTED 9' FROM FLOOR TO BOTTOM
C	INTERMOUNTAIN	2-619-59-SLOPED CEILING *	PENDANT	1-20W CANDELABRA	6" PENDANT MOUNT
D	MAGNAFLOOD	DDF-13/2	WALL	2-13W CFL	WALL
E	PATHWAY	FF8142T-FC8T	RECESSED	1-42WT	EXTERIOR DOWNLIGHT WITH FRESNEL LENS
F	MAGNAFLOOD		WALL	2-9W CFL	WALL
G	-	-	PENDANT	1-42WT	12" ROUND SHORT PENDANT
X1	EMERGILITE	WSLX-10-61G	WALL	NONE	10 YR SELF ILLUMINATED EXIT SIGN
X2	EMERGILITE	PRO-2	WALL	INCLUDED	EGRESS LIGHT WITH BATTERY BACK UP

NOTE: * VERIFY PENDANT CORD LENGTH



SERVICE ENTRANCE GROUNDING DETAIL

NTS

1 / E201

BUILDING STEEL EFFECTIVELY GROUNDED= STEEL TO BE INTENTIONALLY CONNECTED TO EARTH.

EQUIPMENT SCHEDULE

VERIFY DIVISION 15 EQUIPMENT LOCATIONS, RATINGS VOLTAGES, DISCONNECT/STARTER REQUIREMENTS, ETC. WITH APPROVED SHOP DRAWINGS PRIOR TO ROUGH-IN. STARTERS/DISCONNECT, ETC. NOTED HERE PROVIDED BY DIVISION 16.

UNIT	DESCRIPTION	HP/LOAD	VOLTAGE/ PHASE	MINIMUM CIRCUIT AMPACITY	CONTROL/ DISCONNECT	CONTROL WIRING
EF-1	EXHAUST FAN	50W	120/1	.5	1A	A
EC-1	EVAP COOLER	3/4HP	120/1	17	1A	B

1. DIRECT CONNECTION
2. RECEPTACLE
3. TOGGLE SWITCH
4. THERMAL SNAP SWITCH W/PILOT LIGHT
5. DISCONNECT SWITCH
6. FUSED DISCONNECT SWITCH
7. COMBINATION STARTER/DISCONNECT SWITCH
8. COMBINATION STARTER/FUSED DISCONNECT SWITCH
9. VARIABLE FREQUENCY DRIVE
10. MOTOR CONTROL CENTER

A. PROVIDED AND INSTALLED BY DIVISION 16
B. PROVIDED AND INSTALLED BY OTHERS
C. PROVIDED BY OTHERS, INSTALLED BY DIVISION 16

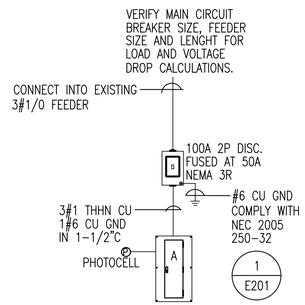
PANELBOARD SCHEDULE

PANEL NAME A — VOLTAGE/PHASE/WIRE 120/240/1/3
PANEL TYPE - — MAIN BUS AMPERAGE -
PANEL DIMENSIONS - "W - "D - "H — MAIN CIRCUIT BREAKER AMPERAGE -
MOUNTING ☒FLUSH ☐SURFACE — AMPS RMS SYM. -

LOAD DESCRIPTION	AMPS	POLE	WIRE SIZE	CKT	LEFT A	LEFT B	RIGHT A	RIGHT B	CKT	AMPS	POLE	WIRE SIZE	LOAD DESCRIPTION
RECEPTACLES	20	1	12	1	1300		1700		2	25	1	10	EC-1
RECEPTACLES	20	1	12	3		1300		450	4	20	1	12	LIGHTING/EF-1
SPARE	20	1	-	5			250		6	20	1	12	EXTERIOR LIGHTING
SPARE	20	1	-	7				600	8	20	1	12	LIGHTING
				9					10				
				11					12				
				13					14				
				15					16				
				17					18				
				19					20				

COLUMN TOTALS 1300 | 1300 | 1950 | 1050
PHASE TOTALS 3250 | 2350
AMPERAGE PER PHASE TOTALS 27 | 20 — 5.6 TOTAL CONNECTED KW LOAD

NOTES:



ONE LINE DIAGRAM

NTS

ELECTRICAL SYMBOL SCHEDULE

SYMBOL	DESCRIPTION	NOTES	MOUNTING HEIGHT TO BOTTOM OF DEVICE
(A)	LIGHT FIXTURE DESIGNATION (LETTER DESIGNATES TYPE)	16.	
CH-1	DIVISION 15 EQUIPMENT NUMBER DESIGNATION		
$	SINGLE POLE SWITCH	2.	+3'-10" MAX.
$3	THREE-WAY SWITCH	2.	+3'-10" MAX.
$T	THERMAL OVERLOAD SWITCH WITH PILOT LIGHT	6.	+3'-10" MAX.
	MOTION SENSOR		
	1 CIRCUIT HOME RUN (1 HOT, 1 NEUTRAL, 1 GROUND)		
	2 CIRCUIT HOME RUN (2 HOT, 1 NEUTRAL, 1 GROUND)		
	3 CIRCUIT HOME RUN (3 HOT, 1 NEUTRAL, 1 GROUND)		+1'-4"
	DUPLEX RECEPTACLE	2. 11.	
WP	WEATHERPROOF RECEPTACLE	P&S WPD-8	+2'-0"
	GROUND FAULT INTERUPTER DUPLEX RECEPTACLE	6. 9. 11.	+1'-4"
	FOURPLEX RECEPTACLE	2. 9. 11.	+1'-4"
	PANEL BOARD	6.	TOP AT +5'-0"
	TELEPHONE/DATA OUTLET COMBINATION	11. 13.	+1'-4"
J	JUNCTION BOX	2. 11.	
	MOTOR OUTLET		TO SUIT EQUIP.
F	FUSED DISCONNECT SWITCH	2. 5. 6.	+5'-0"
	EXIT LIGHT		
	EGRESS LIGHT		

1. SEE FIXTURE SCHEDULE FOR TYPE, MOUNTING, AND WATTAGE.
2. "WP" INDICATES WEATHERPROOF DEVICE.
3. REFER TO DRAWINGS FOR DIRECTIONAL ARROWS.
4. SUBSCRIPT KEYS SWITCH TO FIXTURES CONTROLLED.
5. NEMA TYPE 'ND' NON-FUSED UNLESS NOTED 'F' (FUSED). USE 'HD' 480 V.
6. SEE SPECS FOR SIZE AND/OR TYPE.
7. PROVIDE H.O.A. AND S.S. PUSHBUTTONS AS REQUIRED.
8. DOUBLE ARROWS DENOTE A DOUBLE FACE UNIT.
9. COORDINATE WITH SHOP DRAWINGS AND/OR ARCHITECTURAL PLANS FOR MOUNTING HEIGHT.
10. SUBSCRIPT DENOTES NEMA CONFIGURATION.
11. "F" INDICATES FLOOR MOUNTED DEVICE.
12. INNER/OUTER LAMPS SWITCHED SEPERATELY, TWO BALLASTS REQUIRED.
13. 4" x 4" JUNCTION BOX ONLY
14. "C" INDICATES CEILING MOUNTED DEVICE
15. COORDINATE J-BOX SIZE WITH MANUFACTURER.
16. FOR FIXTURE TYPE AND DESCRIPTION SEE FIXTURE SCHEDULE.

GENERAL NOTES

1. VERIFY ALL EQUIPMENT DIMENSIONS AND LOCATIONS BEFORE BEGINNING ROUGH-IN. CONSULT ALL APPLICABLE CONTRACT DRAWINGS AND SHOP DRAWINGS TO INSURE NEC CODE CLEARANCES REQUIRED AROUND ALL ELECTRICAL EQUIPMENT.
2. CONTRACTOR SHALL VERIFY ALL ELECTRICAL LOADS (VOLTAGE, PHASE, CONNECTION REQUIREMENTS, ETC.) OF EQUIPMENT FURNISHED UNDER OTHER DIVISIONS WITH APPROVED SHOP DRAWINGS BEFORE BEGINNING ROUGH-IN.
3. THE ELECTRICAL CONTRACTOR SHALL NOTIFY AND COOPERATE WITH THE MECHANICAL CONTRACTOR SO THAT NO PIPING, DUCTS, OR EQUIPMENT FOREIGN TO THE OPERATION OF THE ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE INSTALLED IN, ENTER OR PASS THRU ELECTRICAL ROOM OR SPACES; OR ABOVE OR BELOW ELECTRICAL EQUIPMENT IN OTHER AREAS.
4. ALL PENETRATIONS OF FIRE RATED FLOORS, WALLS, AND CEILINGS SHALL BE SEALED WITH APPROVED MATERIAL TO MAINTAIN FIRE RATING OF SURFACE PENETRATED.
5. UNLESS OTHERWISE INDICATED, ALL CONDUIT, J-BOXES, SWITCHES, DEVICES, ETC. TO BE SURFACE MOUNTED ON EXPOSED CONCRETE WALLS OR CEILINGS.
6. COORDINATE WITH ARCHITECT FOR DEMOLITION/NEW CONSTRUCTION PHASING REQUIREMENTS.
7. RUN AN UNSWITCHED CONDUCTOR TO EACH EXIT LIGHT OR FLUORESCENT FIXTURE WITH AN EMERGENCY BATTERY PACK. SEE DRAWINGS FOR FIXTURE LOCATIONS. FIXTURES CONTROLLED BY BI-LEVEL SWITCHING REQUIRE (2) BALLASTS.
8. SIZE GROUND AND CONDUITS PER NEC TABLE 250.122. GREEN GROUND WIRES SHALL BE RUN IN ALL CONDUITS.
9. COMPLY WITH IBC, NEC, NFPA, IFC AND ADA.

DRA Project #

dave robinson architects
Suite 301
4525 Wasatch Blvd.,
Salt Lake City, Utah 84124
801-272-0242

NEW VISITORS CENTER for GOBLIN VALLEY STATE PARK
UTAH STATE DIVISION OF FACILITIES AND CONSTRUCTION MANAGEMENT

Revisions

Date	Item
11-18-05	

GOBLIN VALLEY
E-201

STATE OF UTAH
DIVISION OF PARKS AND RECREATION
NEW RESTROOM & SHOWER FACILITY
FOR
GOBLIN VALLEY STATE PARK

GOBLIN VALLEY ROAD - WEST OF STATE ROUTE #24 - SOUTH OF SAN RAFAEL REEF

EMERY COUNTY
P.O. BOX #637
GREEN RIVER, UTAH 84525-0637
DFCM PROJECT NO. 04255510

STATE OF UTAH
DEPARTMENT OF ADMINISTRATIVE SERVICES
DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT

State of Utah—Department of Administrative Services
DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT
4110 State Office Building / Salt Lake City, Utah 84114 / 538-3018

DRA Project # 2524.GVR

dave robinson architects
4525 Wasatch Blvd., Suite 301
Salt Lake City, Utah 84124
801-272-0242

State of Utah
Department of Administrative Services
Division of Facilities - Construction & Management
4110 State Office Building
Salt Lake City, Utah 84114
Phone: (801) 538 - 3018
Fax: (801) 538 - 3267
Internet: http://dfcm.utah.gov

DESIGN TEAM

OWNER
STATE OF UTAH
DEPARTMENT OF ADMINISTRATIVE SERVICES – DIVISION OF FACILITIES, CONSTRUCTION, AND MANAGEMENT
JEFF REDDOOR
4110 STATE OFFICE BUILDING
SALT LAKE CITY, UTAH 84114
PHONE: (801) 538-9620

DIVISION OF PARKS AND RECREATION
BILL MAUGHAN,
CONSTRUCTION OPERATIONS SPECIALIST
EUGENE SWALBERG, PARK MANAGER
1594 WEST NORTH TEMPLE, SUITE 116
SALT LAKE CITY, UTAH 84114-6001
PHONE: (801) 538-7350

ARCHITECT
DAVE ROBINSON ARCHITECTS
4525 SOUTH WASATCH BLVD.
SUITE #301
SALT LAKE CITY, UTAH 84124
PHONE: (801) 272-0242
FAX: (801) 272-0269

STRUCTURAL ENGINEER
BHB CONSULTING ENGINEERS
244 WEST 300 NORTH STE. 202
SALT LAKE CITY, UTAH 84103
PHONE: (801) 355-5656
FAX: (801) 355-5950

MECHANICAL ENGINEER
DALE R. WILDE
1106 E. 2700 S.
SALT LAKE CITY, UTAH 84106
PHONE: (801) 433-1125
FAX: (801) 486-0714

ELECTRICAL
FELLEX ENGINEERING
745 E. 12000 S.
SANDY, UT 84020
PHONE: (801) 523-5023
FAX: (801) 523-5054

DESIGN CRITERIA

DFCM DESIGN AND CODE CRITERIA
(Fee A/E:Attach and fill in applicable data for Contract Drawing submittal)

Applicable Codes:	Year		Year
International Building Code[a]	2003	Uniform Mechanical Code	N/A
Dept of Justice ADA Accessibility Guidelines Title III	1992	International Plumbing Code	2000
		Energy Code	N/A
		National Electrical Code	1999

A. Occupancy and Group: U Utility
Change in Use: Yes___ No X — Mixed Occupancy: Yes___ No___

B. Type of Construction: I F.R. / II F.R. / II 1 HR / II N / III 1 HR / III N / IV H.T. / V 1 HR / (V N circled)

C. Location of Property: F.R. Ext. Walls (Hrs.) N/A — Ext. Wall Opening(s) Protection (Hrs.) N/A

D. Each Occupancy

	Each Occupancy		
Occupancy separation required (Hrs.):	N/A		
Sprinklered indicate Yes or No	NO		
Stories 1 or multiple			
a. Actual Area (Ft²):	918 SQ. FT.		
b. Basic Allowable Area:	5,500 SQ. FT.		
c. Allowable Area Increase Due to side yards: N	N/A		
E	N/A		
W	N/A		
S	N/A		
d. Side yard area increased (ft)	N/A		
Accumulative sub-total (b+d):	N/A		
Sprinkler: area increase (x 3 single)	N/A		
(x 2 multi)	N/A		
e. Total allowable area for a single story	N/A		
x 2 for multi-story buildings:	N/A		
f. Ratio = a/e[b] (Actual divided by Allowable)			

E. Fire-Resitive Requirements (hrs.): (N/A)

Exterior Bearing Walls	0	Floors - Ceiling Floors	0
Interior Bearing Walls	0	Roofs - Ceiling Roofs	0
Exterior Non-bearing Walls	0	Exterior Doors and Windows	0
Structural Frame	0	Shaft Enclosures	0
Partitions - Permanent	0		

FOOTNOTES:

a. In case of conflict with the U.S. Dept. Of Justice Federal Registers Parts I thru V - ADA Guidelines and specific reference to the Uniform Building Code - Accessibility Chapter, the ADA Guidelines shall prevail.

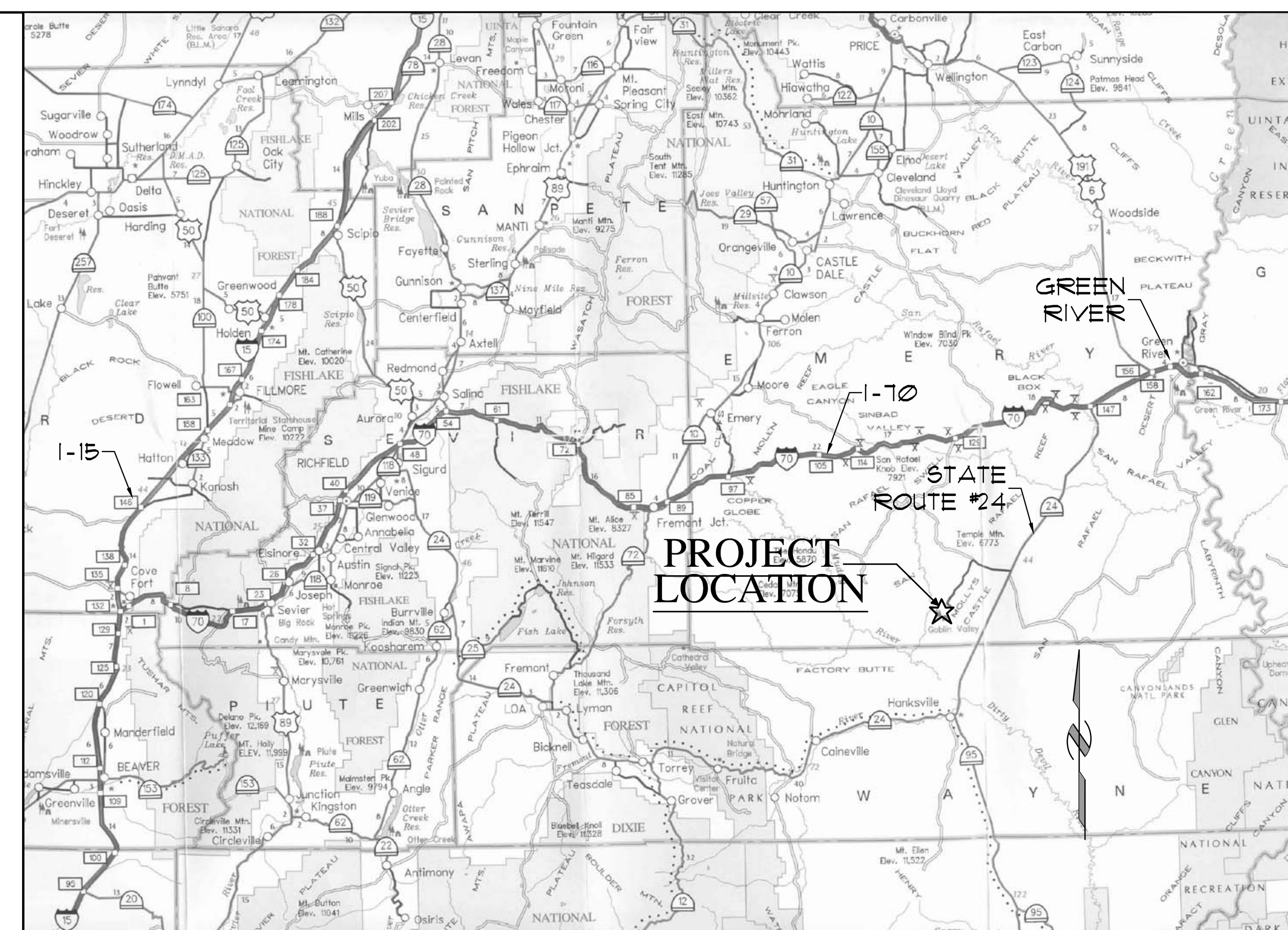
b. If the ratio > 1.0 either 1) Area seperation walls must be installed of 2 hour or 4 hour rating depending on the Construction Type, or 2) The Construction Type must be upgraded to permit a greater Basic Allowable Area. NOTE: Area separation walls must be clearly shown on the key plan in the Contract Documents.

APPROVALS:

Prime Agency ____________ Date ______

DFCM ____________ Date ______

APPROVAL DOES NOT RELIEVE A/E OF DESIGN LIABILITY



VICINITY MAP

GRAPHIC KEY

PLASTER, CONCRETE, GRAVEL, CONCRETE BLOCK, METAL STUD, STEEL, BRICK, ASPHALT, EARTH, ACOUSTIC TILE, CERAMIC TILE, GYPSUM BOARD, BATT INSULATION, RIGID INSULATION, PLYWOOD, WOOD FRAMING, FINISHED LUMBER, GLAZING

KEY NOTE MARKER, ROOM NUMBER (202), GLAZING TYPE (B), DOOR NUMBER, ELEVATION MARKER, FINISHED SPOT ELEV. (100'-0")

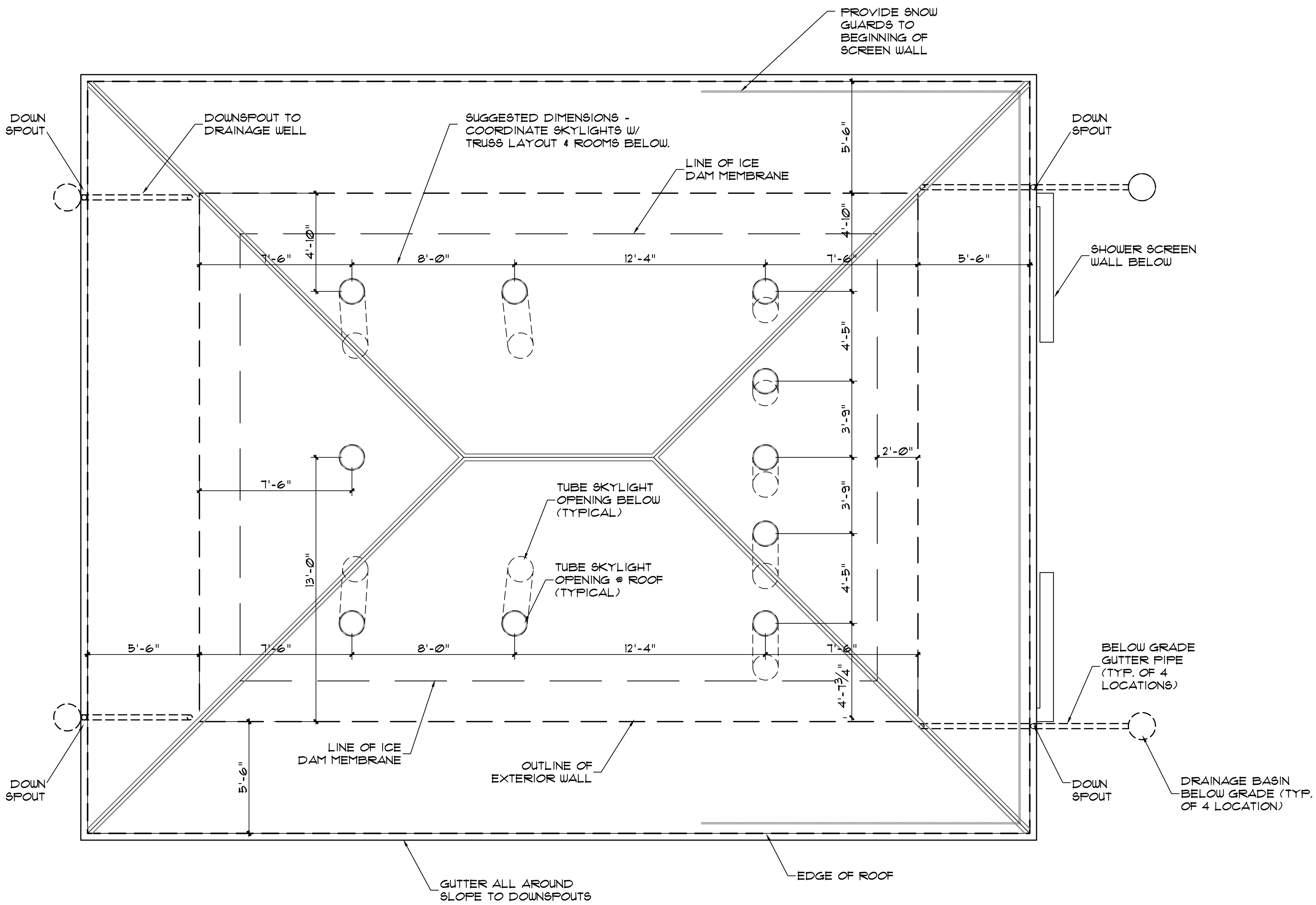
DETAIL (XX DETAIL NUMBER / X-XXX SHEET ON WHICH DETAIL APPEARS), ELEVATION (ELEV. NUMBER / SHEET ON WHICH ELEV. APPEARS), WALL SECTION (SECTION NUMBER / SHEET ON WHICH SECTION APPEARS), BUILDING SECTION (SECTION NUMBER / SHEET ON WHICH SECTION APPEARS)

DRAWING INDEX

NEW RESTROOM & SHOWER FACILITY FOR GOBLIN VALLEY STATE PARK
UTAH STATE DIVISION OF FACILITIES AND CONSTRUCTION MANAGEMENT

Revisions	
Date	Item

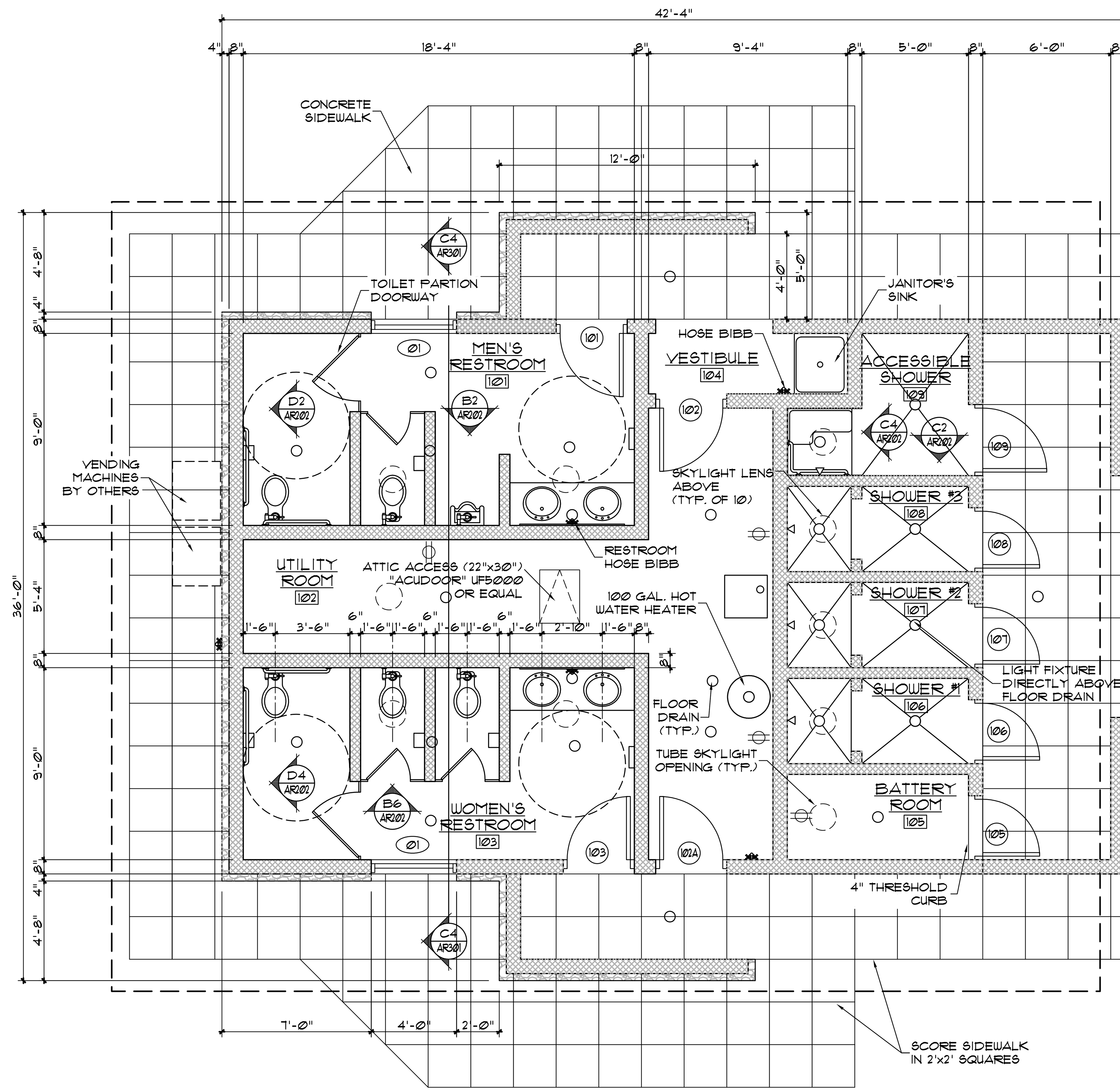
12-29-05



PLAN NORTH

ROOF PLAN

SCALE - 1/4" = 1'-0"



PLAN NORTH

FLOOR PLAN

SCALE - 1/4" = 1'-0"

GENERAL NOTES

1. DEMOLISH EXISTING RESTROOM STRUCTURE, INCLUDING FOUNDATIONS THAT MAY INTERFERE w/ NEW CONSTRUCTION
2. COORDINATE ORIENTATION OF NEW CONSTRUCTION w/ PARK MANAGER. PLAN NORTH SHOWN FOR COORDINATING REFERENCES ONLY.
3. CONNECT WASTE & WATER LINES TO EXISTING PIPING
4. PROVIDE FILL EXCAVATION AS NECESSARY FOR PROOPER FIN. ELEVATION
5. PROVIDE FINISH GRADES w/ MAX 2% SLOPE FROM ACCESSIBLE PARKING STALLS TO BUILDING, INCLUDING ADA COMPLIANT RAMPS, SIGNAGE, CURB CUTS, ETC.
6. CONTRACTOR TO PROVIDE VERIFICATION THAT ALL BEARING SURFACES ARE PLACED ON 95% COMPACTION & ON SOIL w/ MIN. BEARING PRESSURE OF 2000 PSF

DRA Project #
2524.GVR

dave robinson architects
4525 Wasatch Blvd., Suite 301
Salt Lake City, Utah 84124
801-272-0242

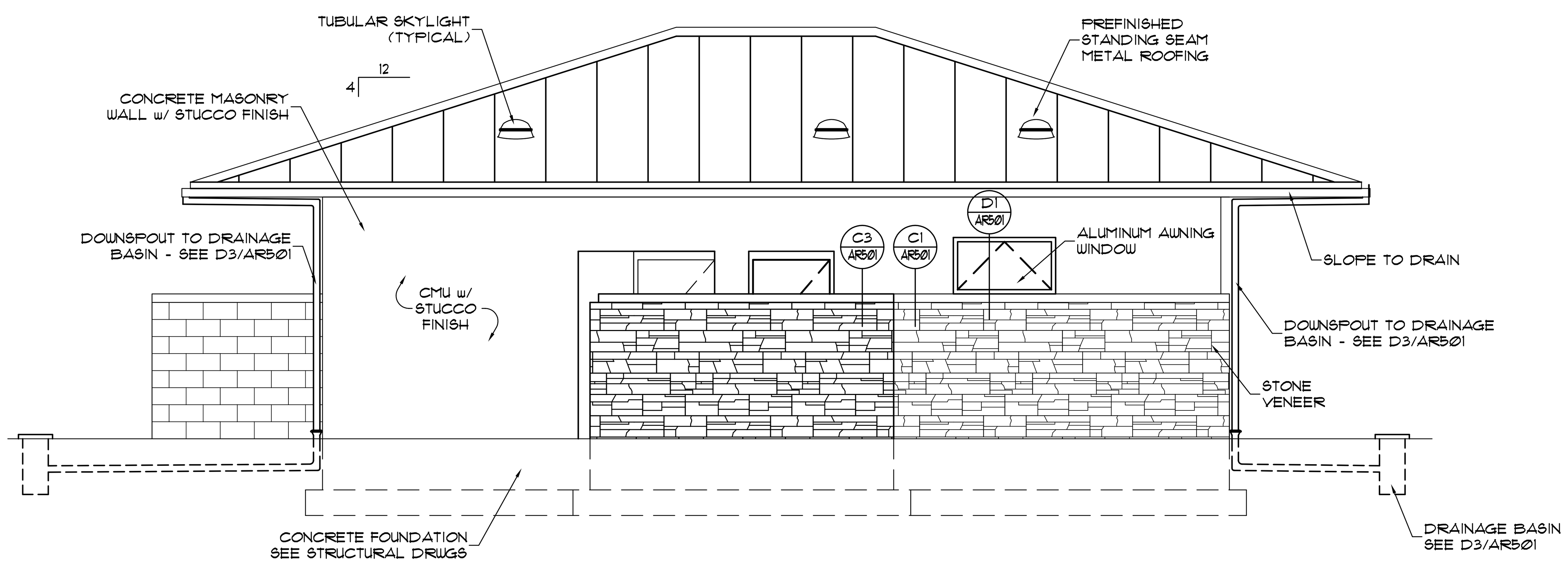
State of Utah
Department of Administrative Services
Division of Facilities - Construction & Management
4110 State Office Building
Salt Lake City, Utah 84114
Phone: (801) 538 - 3018
Fax: (801) 538 - 3267
Internet: http://dfcm.utah.gov

NEW RESTROOM & SHOWER FACILITY
FOR
GOBLIN VALLEY STATE PARK
UTAH STATE DIVISION OF FACILITIES AND CONSTRUCTION MANAGEMENT

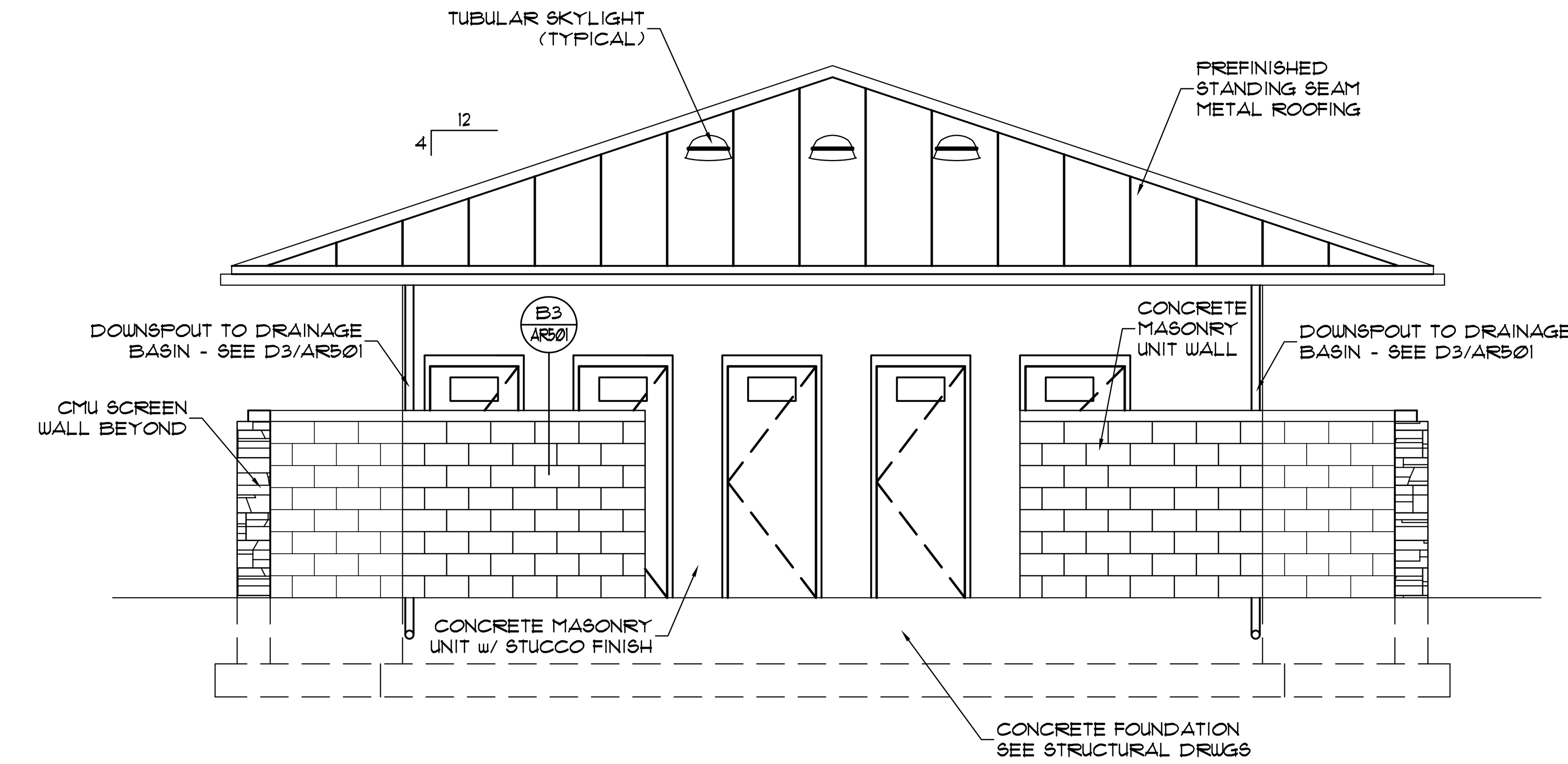
Revisions	
Date	Item

12-29-05

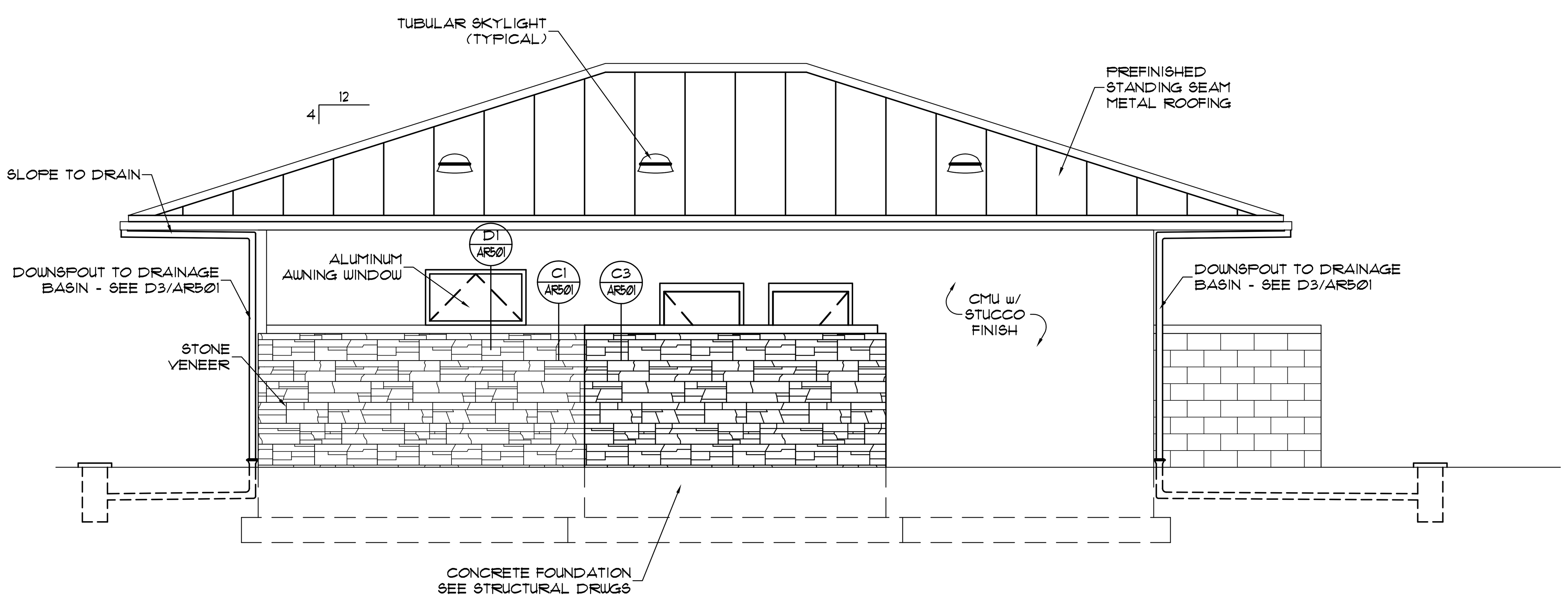
GOBLIN VALLEY RESTROOMS
AR101
2524.GVR



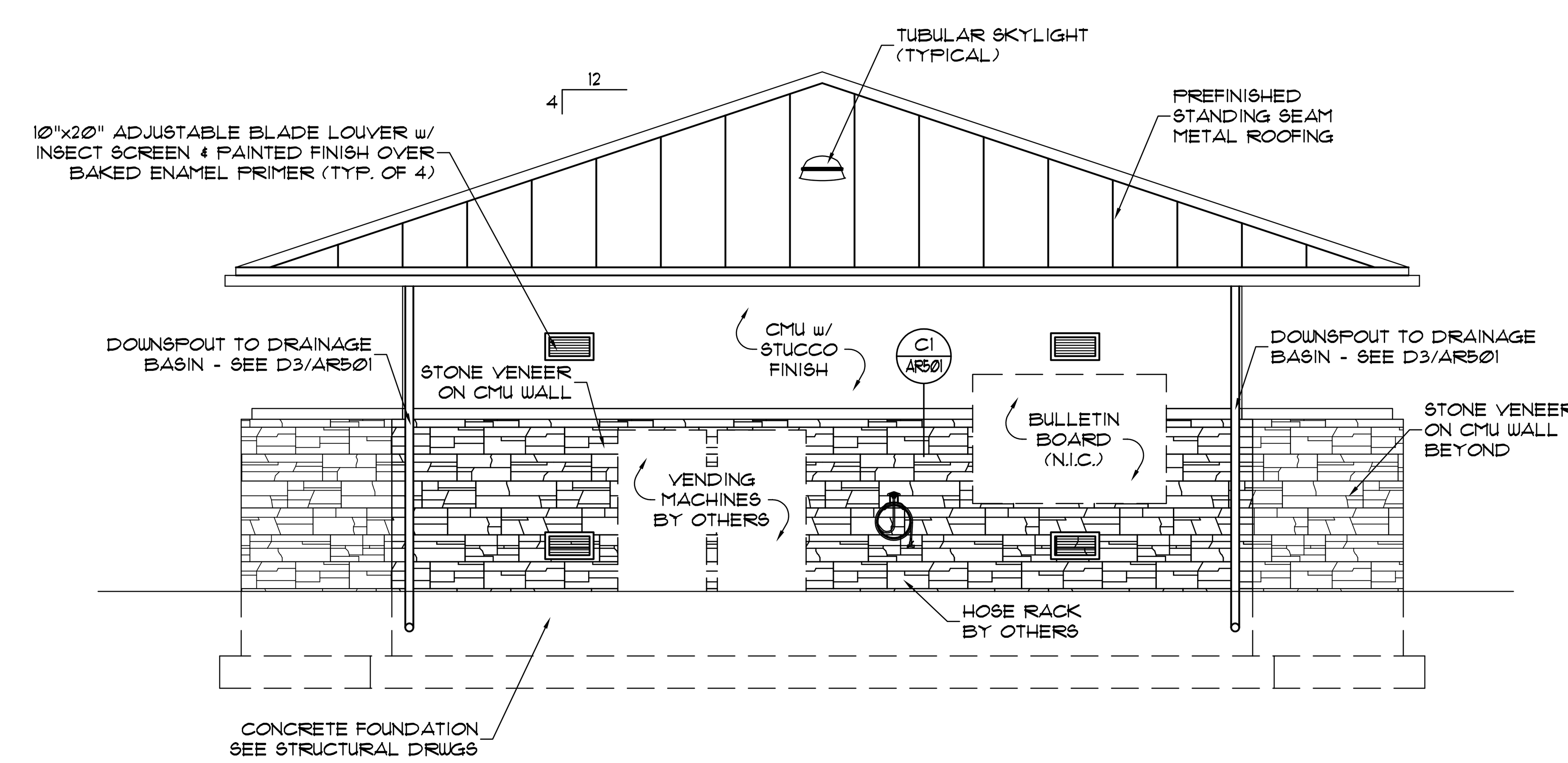
B3 / AR201 **EAST ELEVATION**
SCALE - 1/4" = 1'-0"



B6 / AR201 **SOUTH ELEVATION**
SCALE - 1/4" = 1'-0"



C3 / AR201 **WEST ELEVATION**
SCALE - 1/4" = 1'-0"



C6 / AR201 **NORTH ELEVATION**
SCALE - 1/4" = 1'-0"

DRA Project #
2524.GVR

dave robinson architects
4525 Wasatch Blvd., Suite 301
Salt Lake City, Utah 84124
801-272-0242

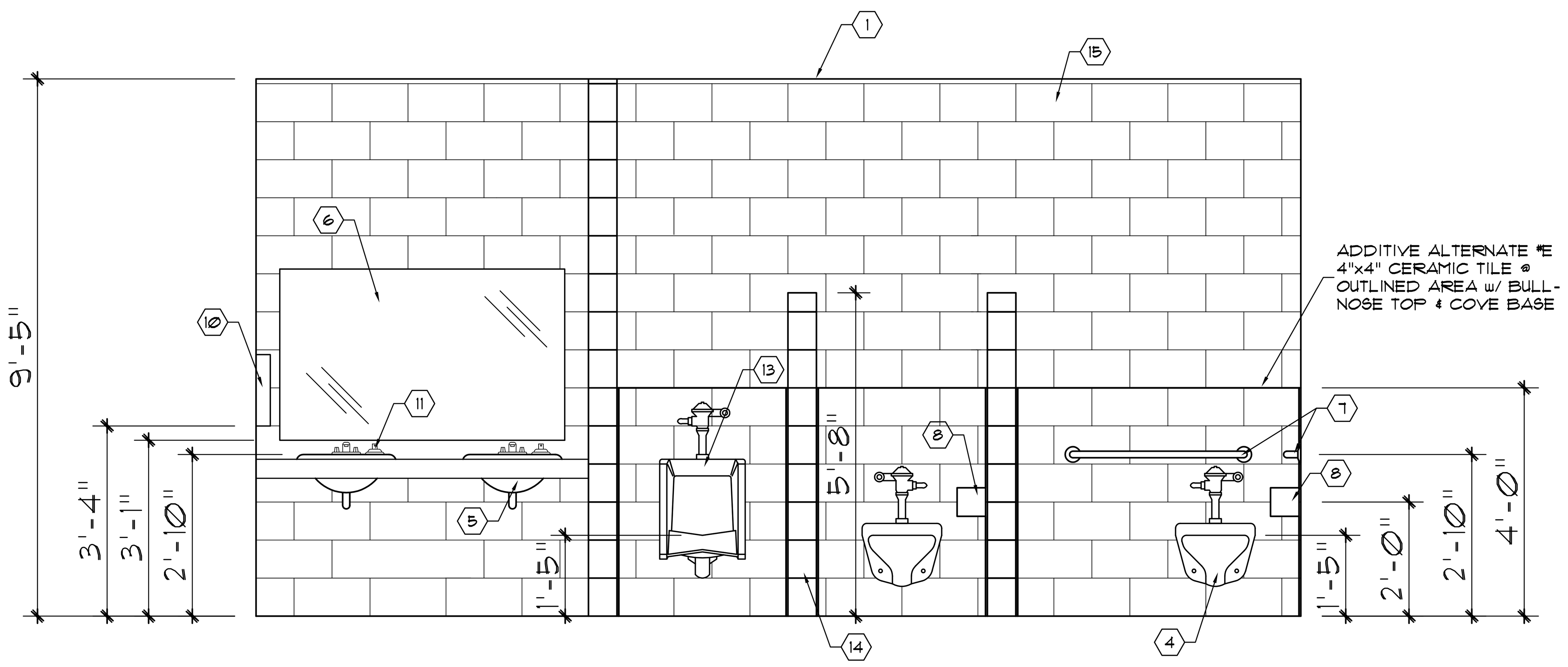
State of Utah
Department of Administrative Services
Division of Facilities - Construction & Management
4110 State Office Building
Salt Lake City, Utah 84114
Phone: (801) 538 - 3018
Fax: (801) 538 - 3267
Internet: http://dfcm.utah.gov

NEW RESTROOM & SHOWER FACILITY
FOR
GOBLIN VALLEY STATE PARK
UTAH STATE DIVISION OF FACILITIES
AND CONSTRUCTION MANAGEMENT

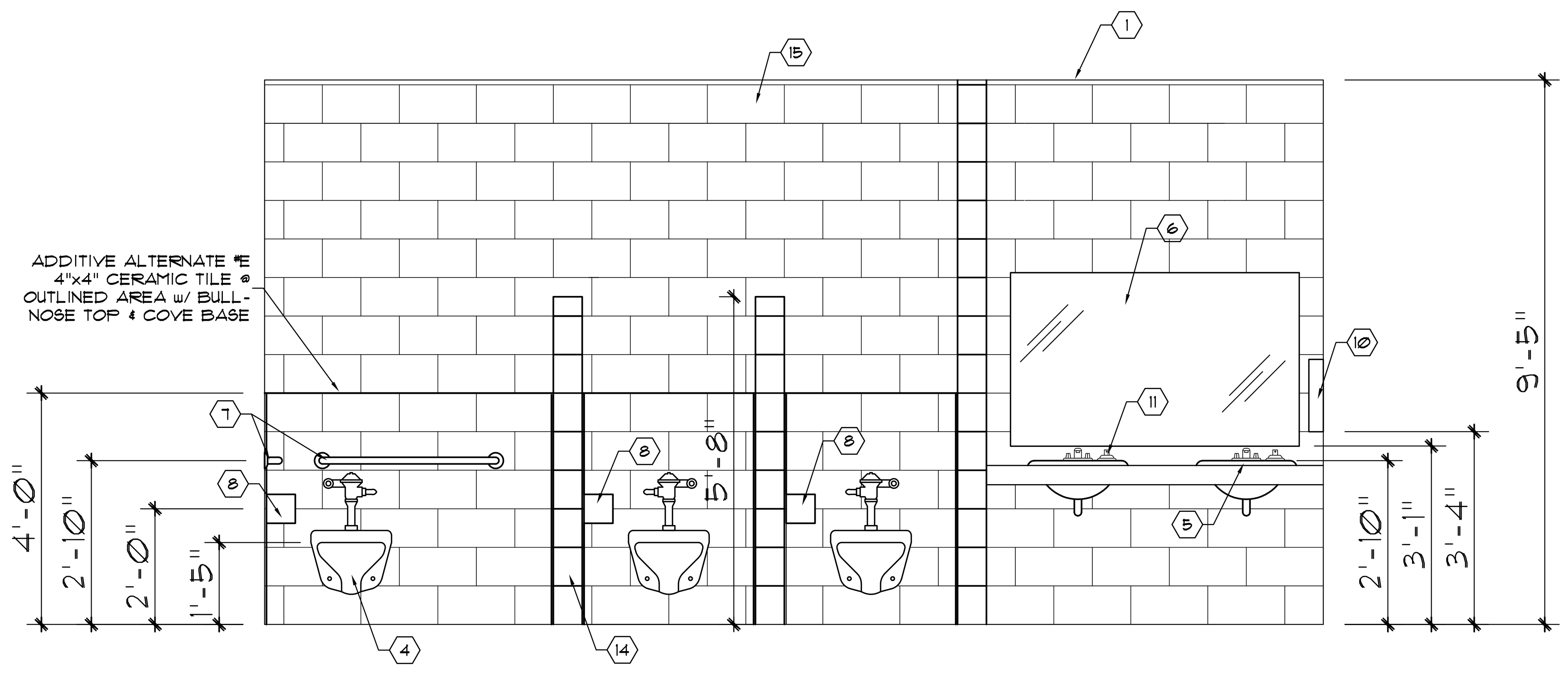
Revisions	
Date	Item

12-29-05

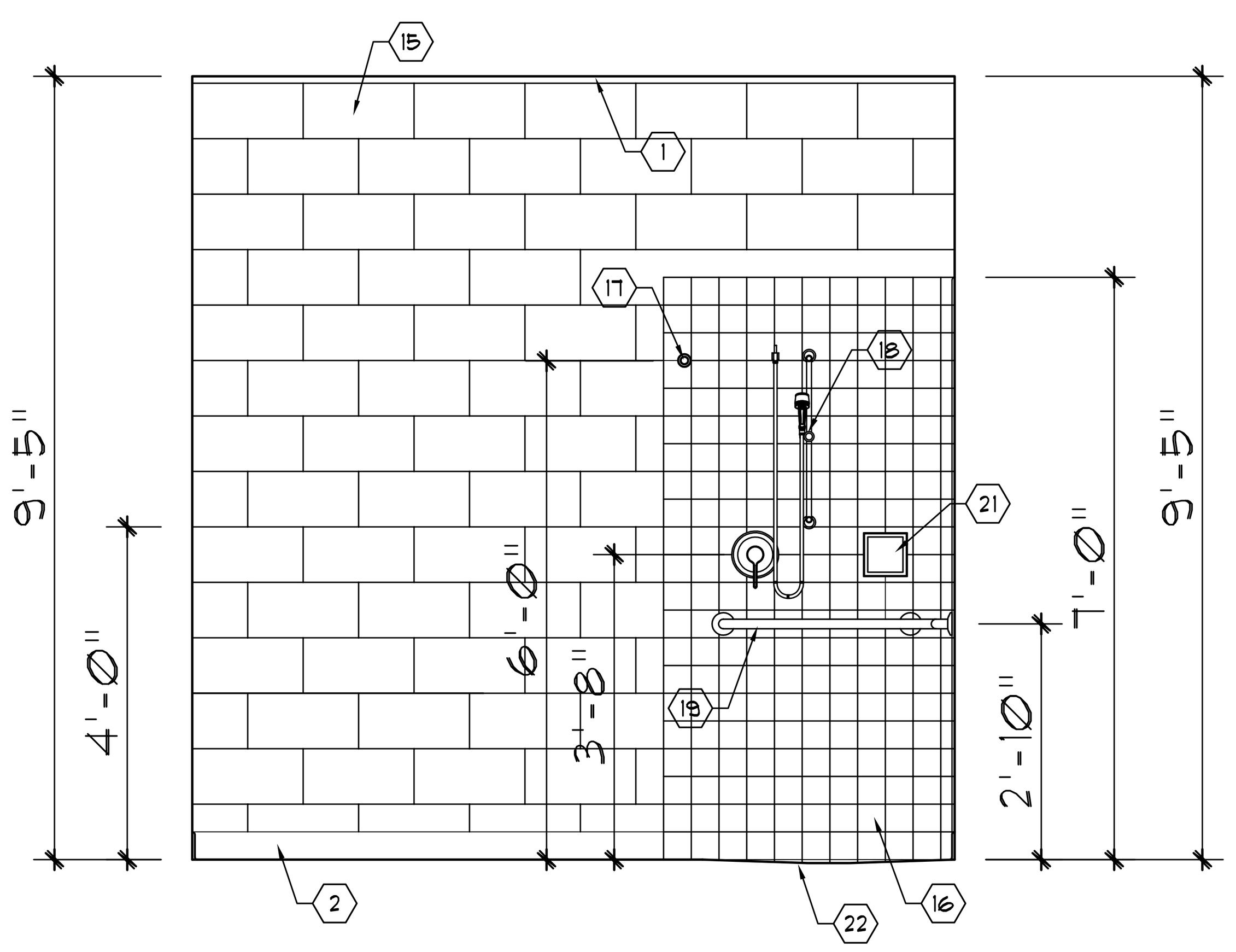
GOBLIN VALLEY RESTROOMS
AR201
2524.GVR



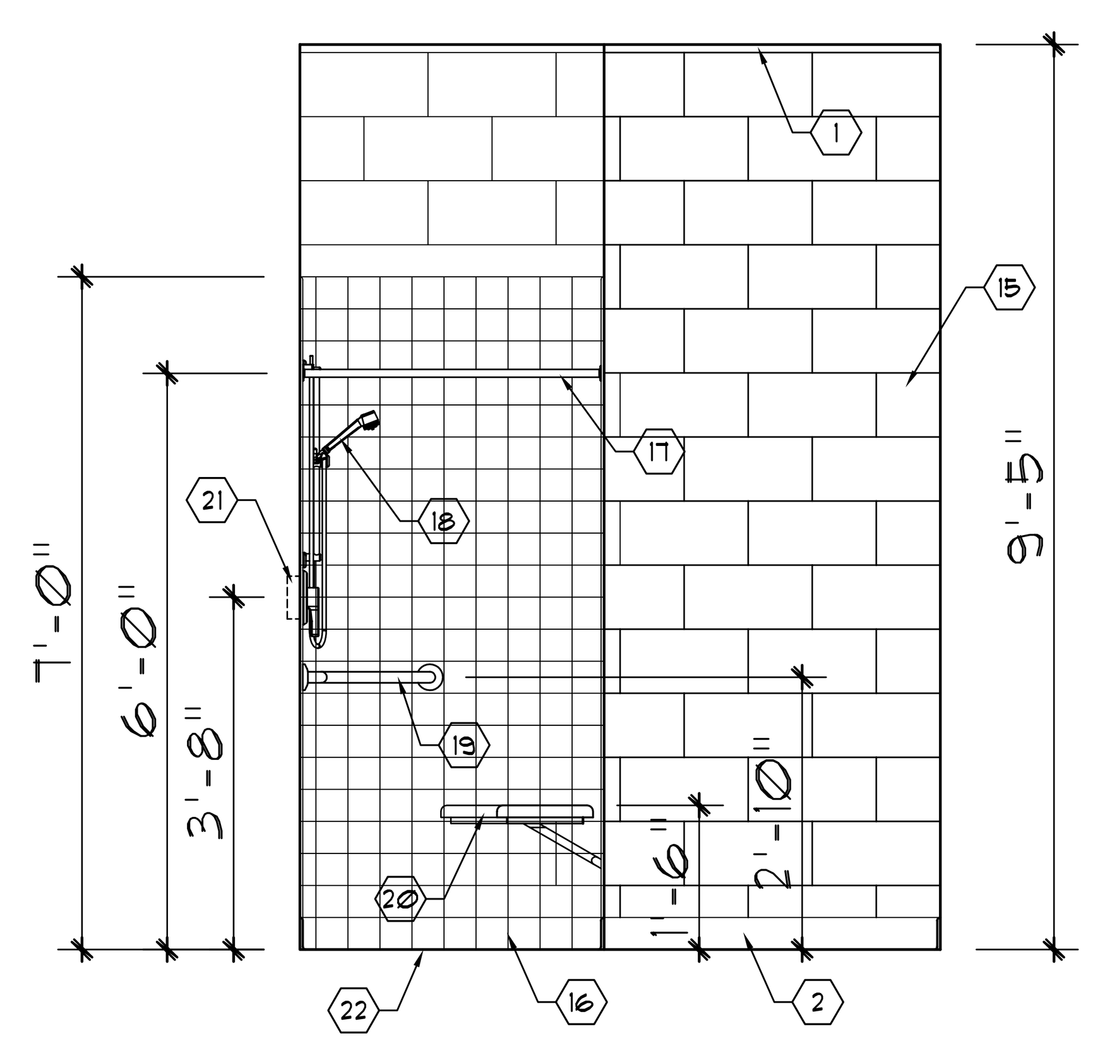
B2 / AR202 WEST ELEVATION - MEN'S RESTROOM
SCALE - 1/4" = 1'-0"



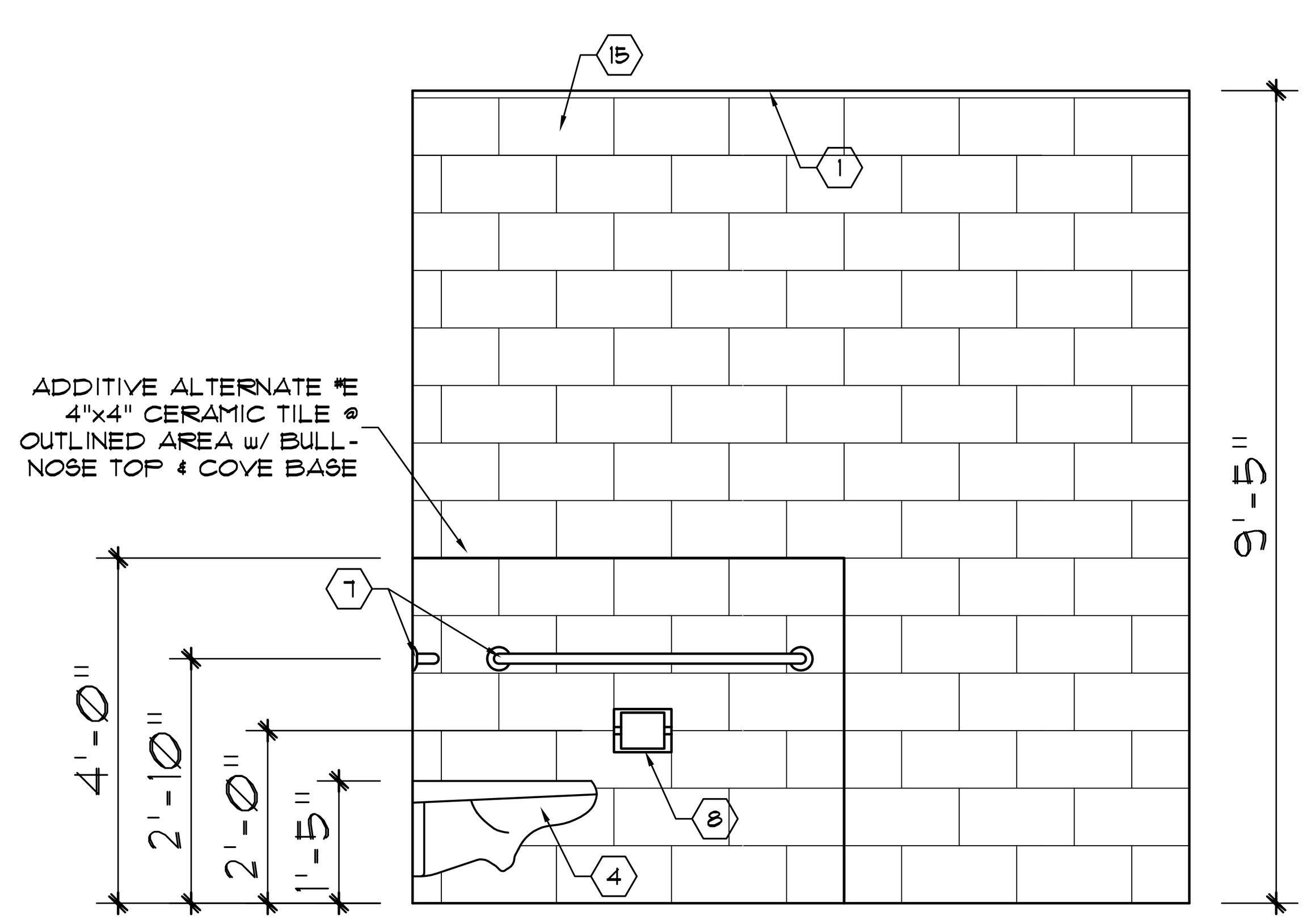
B6 / AR202 EAST ELEVATION - WOMEN'S RESTROOM
SCALE - 1/4" = 1'-0"



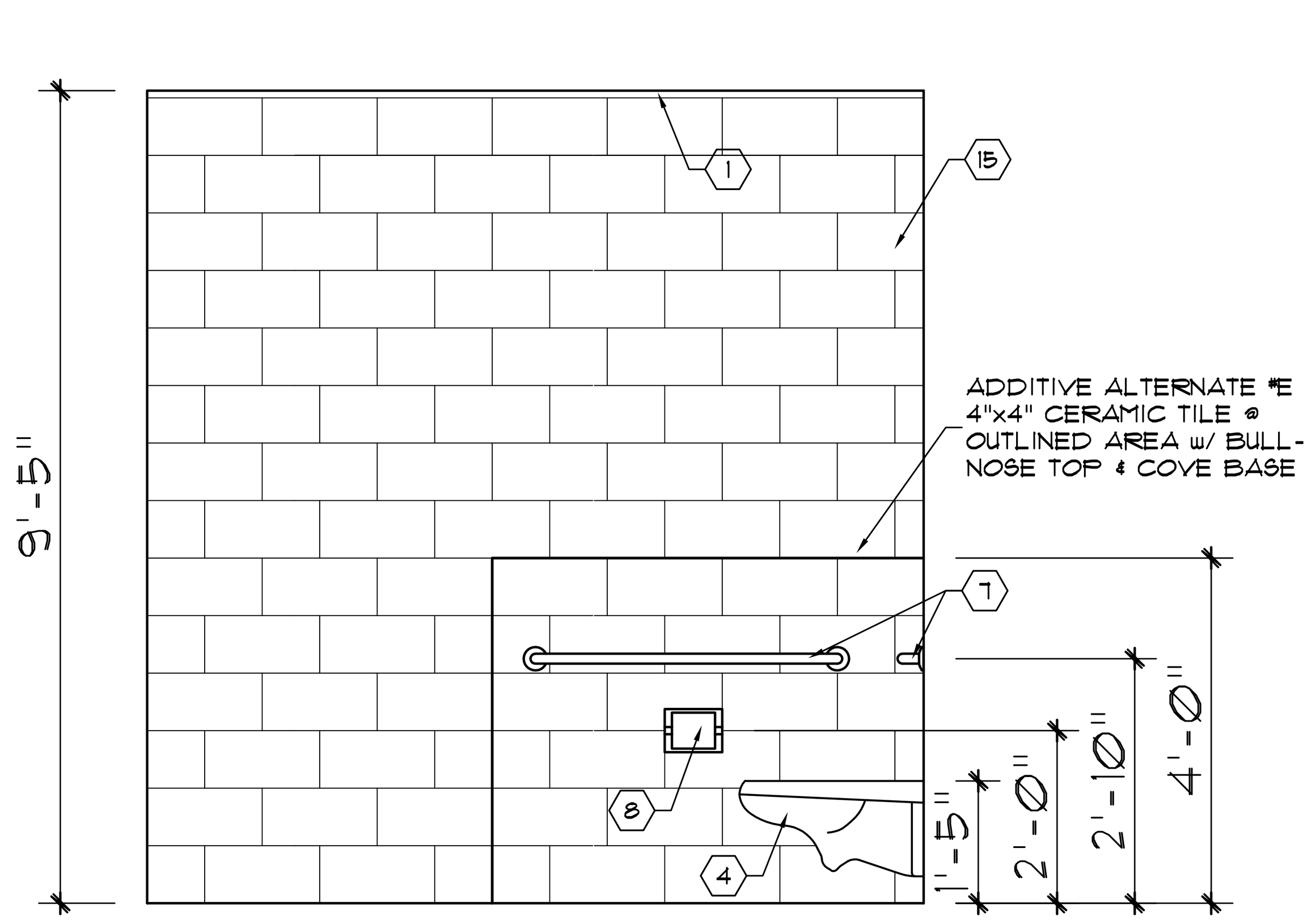
C2 / AR202 EAST ELEVATION - ACCESSIBLE SHOWER
SCALE - 1/4" = 1'-0"



C4 / AR202 NORTH ELEVATION - ACCESSIBLE SHOWER
SCALE - 1/4" = 1'-0"



D2 / AR202 NORTH ELEVATION - MEN'S RESTROOM
SCALE - 1/4" = 1'-0"



D4 / AR202 NORTH ELEVATION - WOMEN'S RESTROOM
SCALE - 1/4" = 1'-0"

KEY NOTES

1. PAINTED ⅝" GYPSUM BOARD CEILING (WATER-RESISTANT)
2. COVE CERAMIC TILE BASE (ACCESSIBLE SHOWER)
3. HOLLOW METAL PAINTED DOOR SEE DOOR SCHEDULE
4. TOILET - ACCESSIBLE
5. MOLDED SINKS, TO BE INTEGRAL w/ COUNTERTOP, EQUAL TO BRADLEY "LAV DECK" MODEL LD - 3010 SERIES (PROTECT AS REQUIRED)
6. 5'-0"x3'-0" MIRROR w/ S.S. FRAME
7. GRAB BAR - 1½"ɸ, 42" LONG PARALLEL TO TOILET, 36" @ PLUMBING WALL
8. TOILET PAPER DISPENSER
9. UNUSED
10. PAPER TOWEL DISPENSER
11. SOAP DISPENSER (IN MOLDED SINK)
12. AMERICAN DCG31-100T199-6P 100 GAL. HOT WATER HEATER PROPANE HEATED
13. URINAL - WALL MOUNTED HANICAPPED ACCESSIBLE
14. 6" CMU PARTITION WALL
15. CMU WALL BEYOND SEE FINISH SCHEDULE
16. 4"x4" CERAMIC TILE (ACCESSIBLE SHOWER)
17. SHOWER CURTAIN ROD
18. ACCESSIBLE SHOWER ASSEMBLY
19. ACCESSIBLE SHOWER GRAB BAR ASSEMBLY
20. ACCESSIBLE SHOWER SEAT
21. RECESSED SOAP DISH
22. 2"x2" CERAMIC TILE @ SHOWER FLOOR SLOPED TO DRAIN (ACCESSIBLE SHOWER)

GENERAL NOTES:
CONTINUOUS SEALANT AROUND FIXTURES TRIM

NOTE:
ADDITIVE ALTERNATE #E

4"x4" CERAMIC TILE IN SHOWER ROOMS w/ 2"x2" CERAMIC TILE @ SHOWER FLOORS SLOPED TO DRAINS

WALL TILE TO HAVE BULLNOSE TOP TRIM & COVE BASE COURSE

4"x4" CERAMIC TILE COVE @ HARD SURFACE w/ BULLNOSE TOP & COVE BASE

DRA Project #
2524.GVR

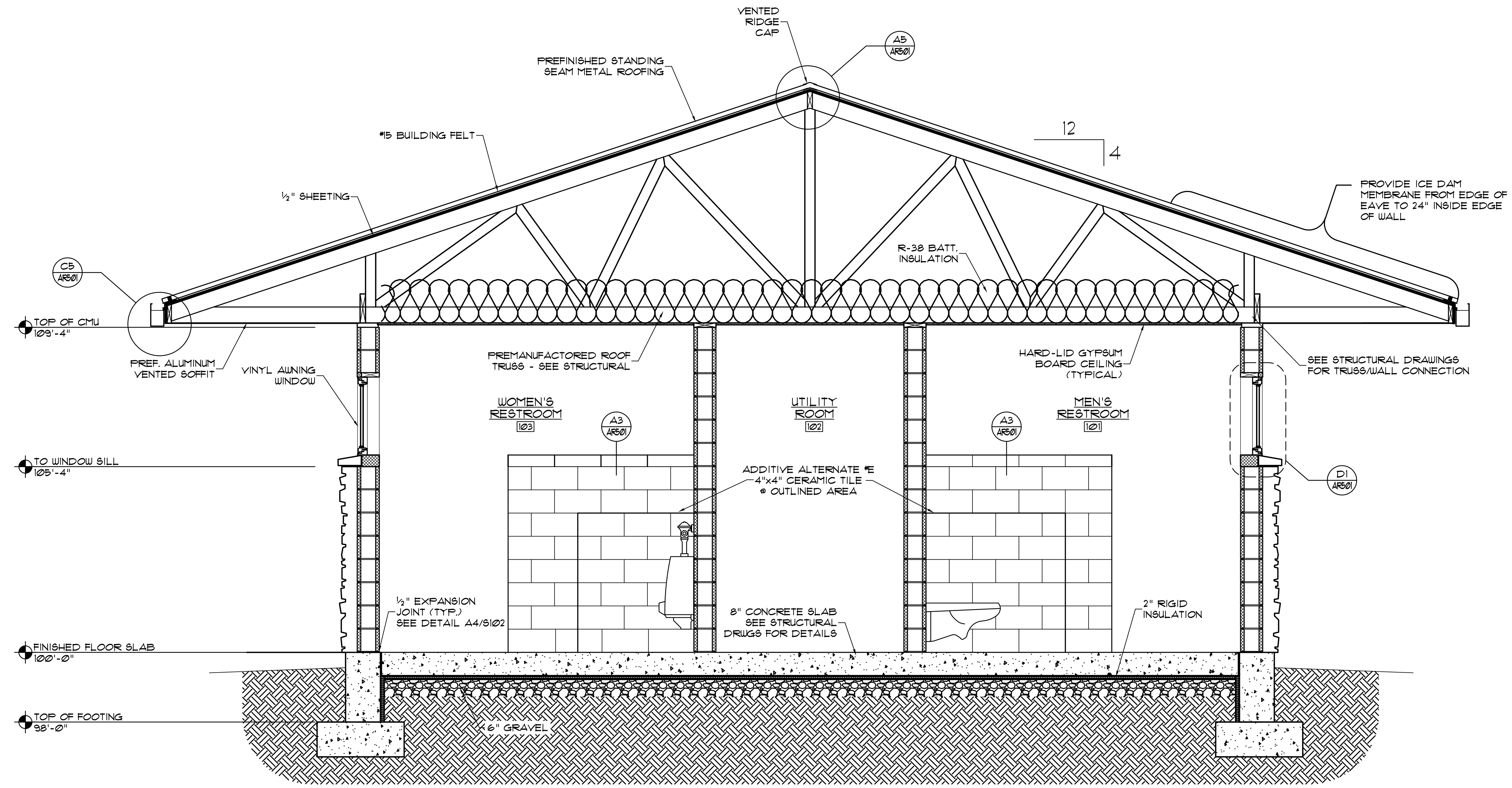
dave robinson architects
4525 Wasatch Blvd., Suite 301
Salt Lake City, Utah 84124
801-272-0242

State of Utah
Department of Administrative Services
Division of Facilities - Construction & Management
4110 State Office Building
Salt Lake City, Utah 84114
Phone: (801) 538 - 3018
Fax: (801) 538 - 3267
Internet: http://dfcm.utah.gov

NEW RESTROOM & SHOWER FACILITY
FOR
GOBLIN VALLEY STATE PARK
UTAH STATE DIVISION OF FACILITIES AND CONSTRUCTION MANAGEMENT

Revisions	
Date	Item
12-29-05	

GOBLIN VALLEY RESTROOMS
AR202
2524.GVR



C4 / AR301 **BUIDLING SECTION**
SCALE - 1/2" = 1'-0"

DRA Project #
2524.GVR

dave robinson architects
4525 Wasatch Blvd., Suite 301
Salt Lake City, Utah 84124 801-272-0242

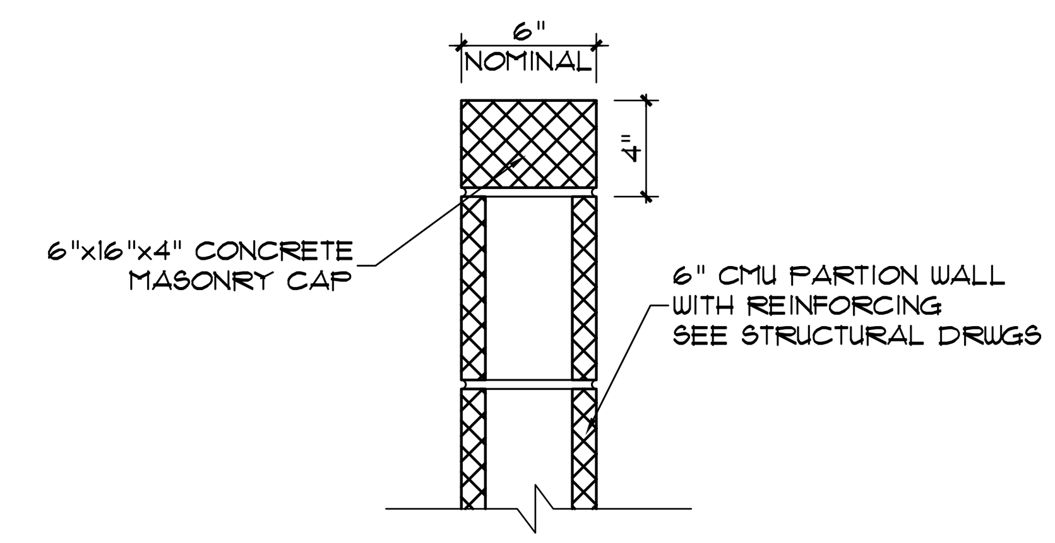
State of Utah
Department of Administrative Services
Division of Facilities - Construction & Management
4110 State Office Building
Salt Lake City, Utah 84114
Phone: (801) 538 - 3018
Fax: (801) 538 - 3267
Internet: http://dfcm.utah.gov

NEW RESTROOM & SHOWER FACILITY
FOR
GOBLIN VALLEY STATE PARK
UTAH STATE DIVISION OF FACILITIES
AND CONSTRUCTION MANAGEMENT

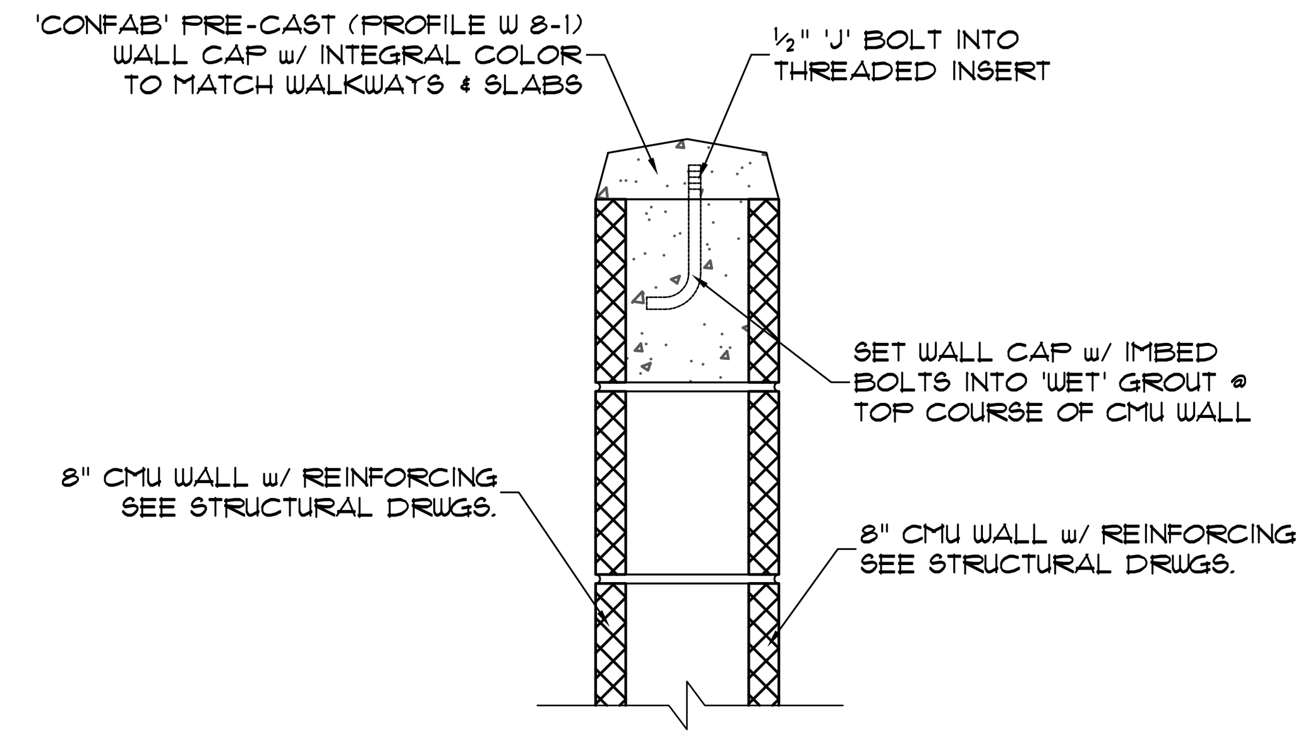
Revisions	
Date	Item

12-29-05

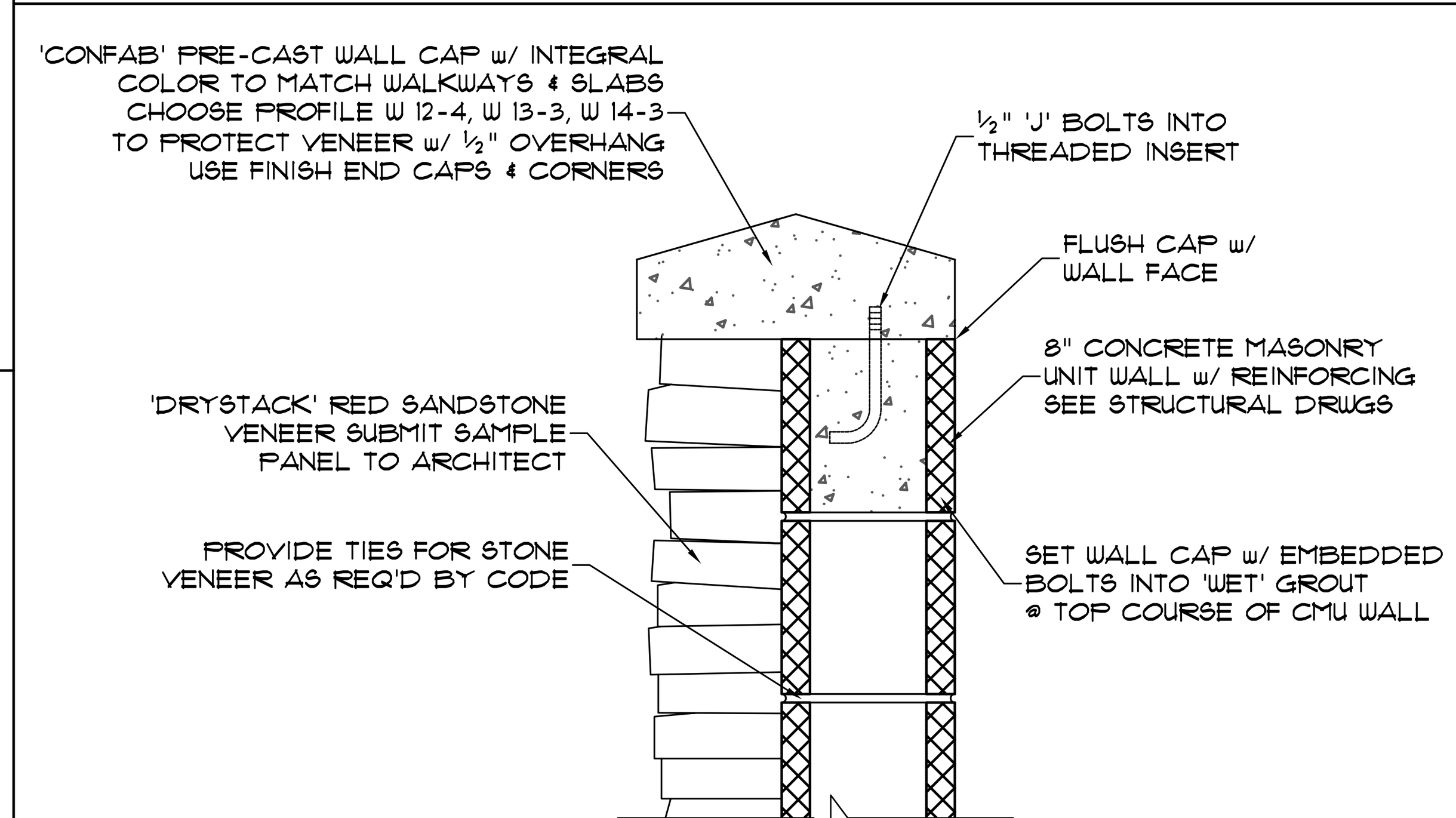
GOBLIN VALLEY RESTROOMS
AR301
2524.GVR



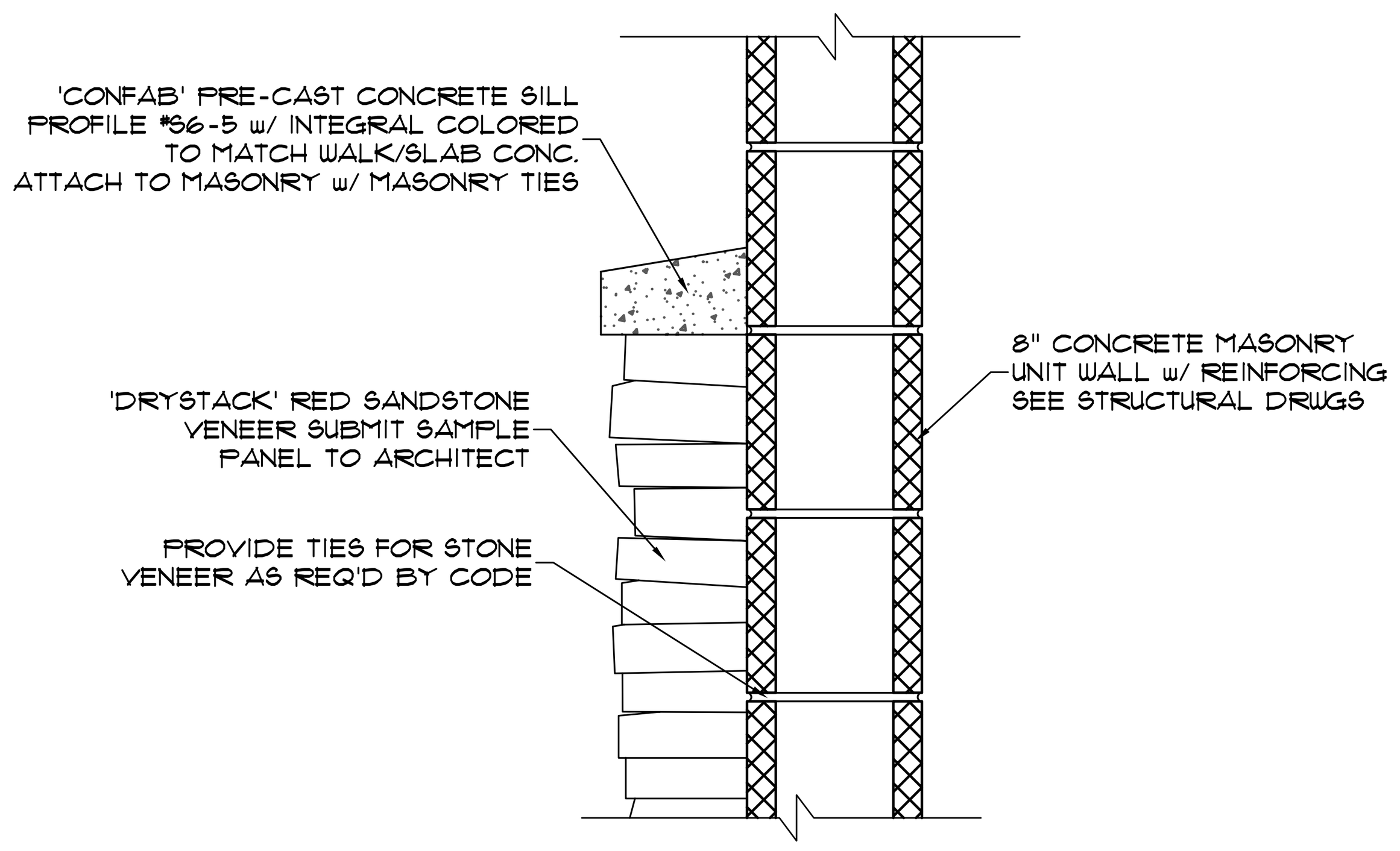
A3 AR501 6" CMU PARTITION WALL
SCALE: 1½" = 1'-0"



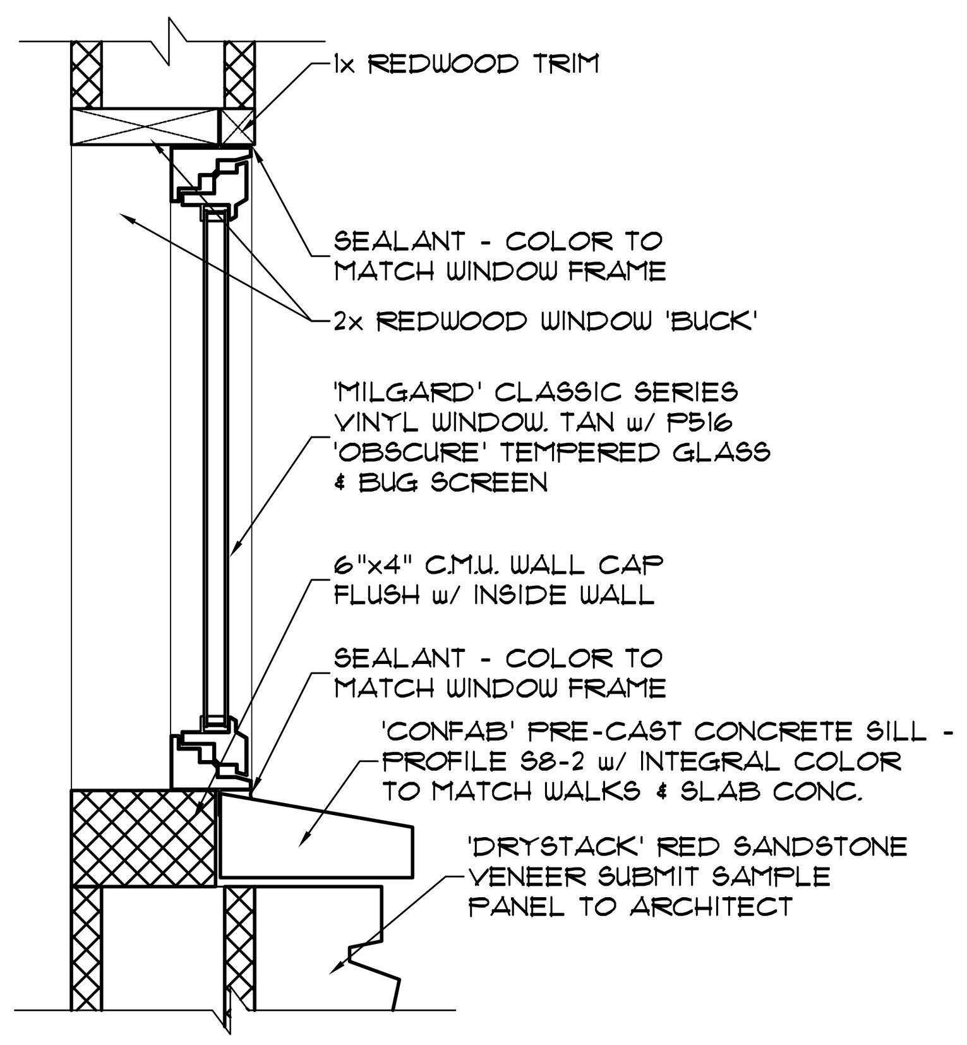
B3 AR501 CAP @ 8" CMU SCREEN WALL
SCALE: 1½" = 1'-0"



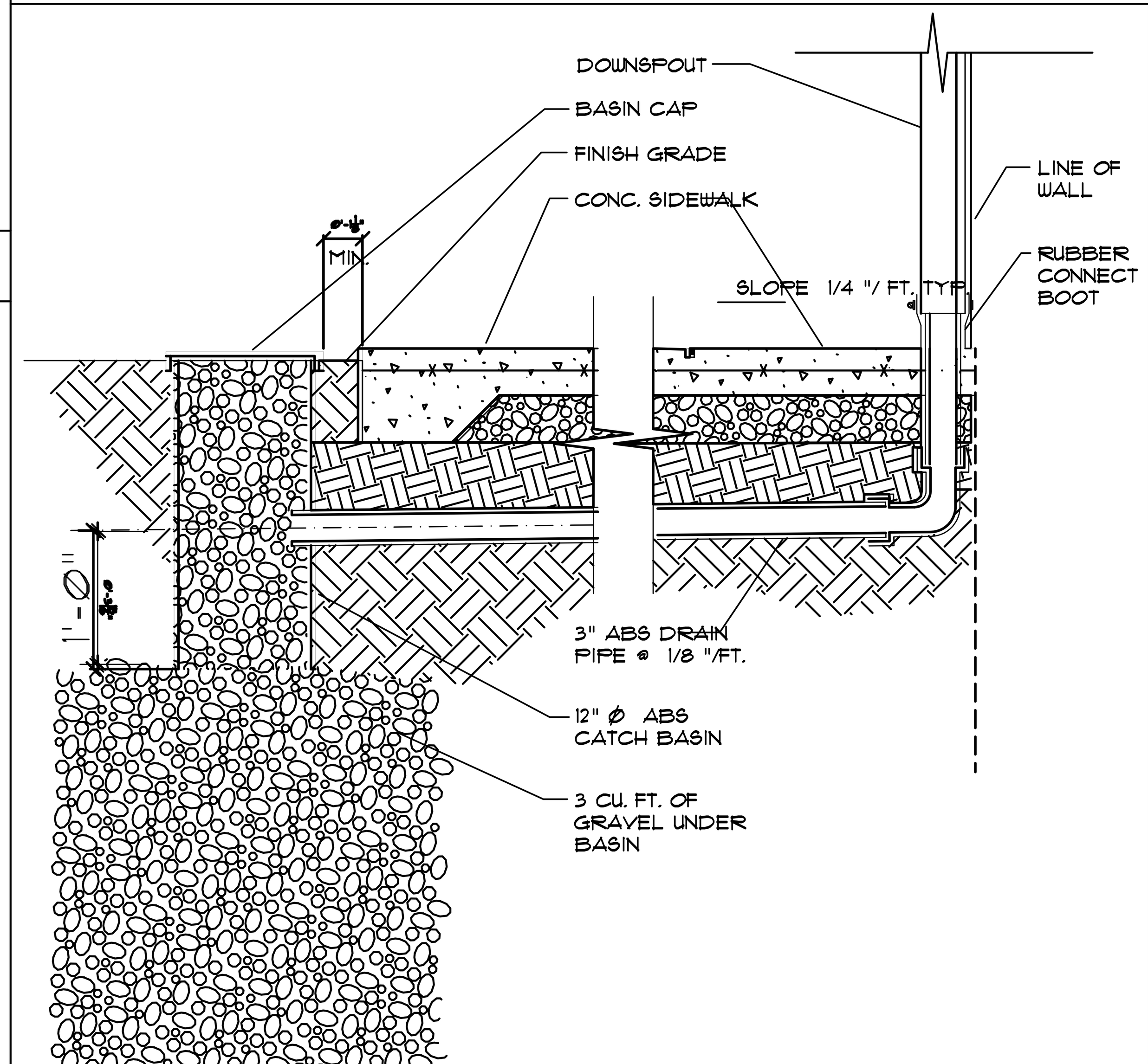
C3 AR501 CAP @ STONE VENEER SCREEN WALL
SCALE: 1½" = 1'-0"



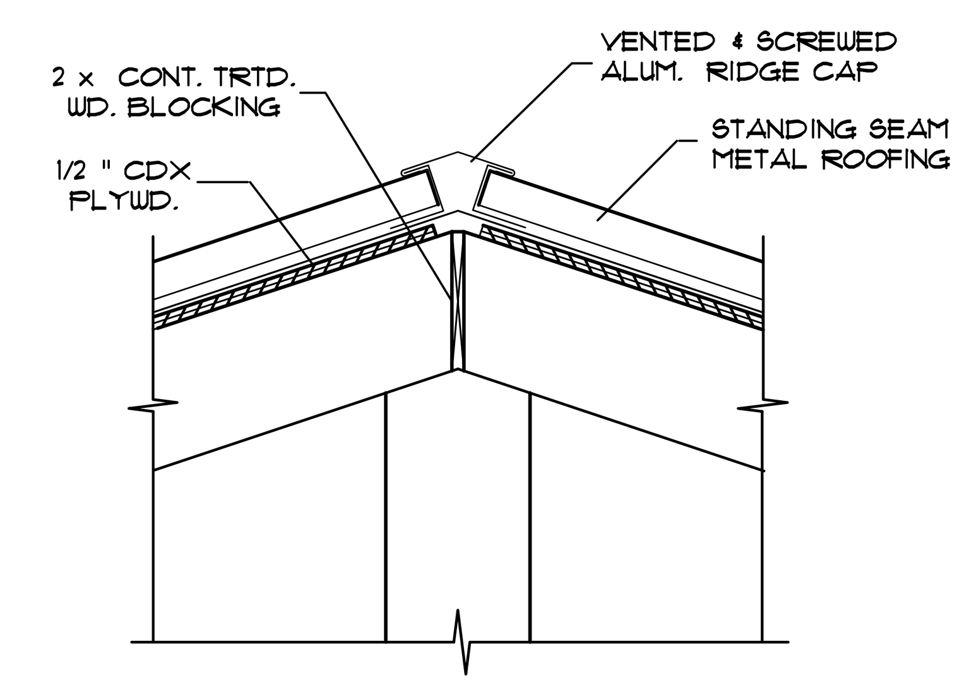
C1 AR501 CAP @ STONE VENEER
SCALE: 1½" = 1'-0"



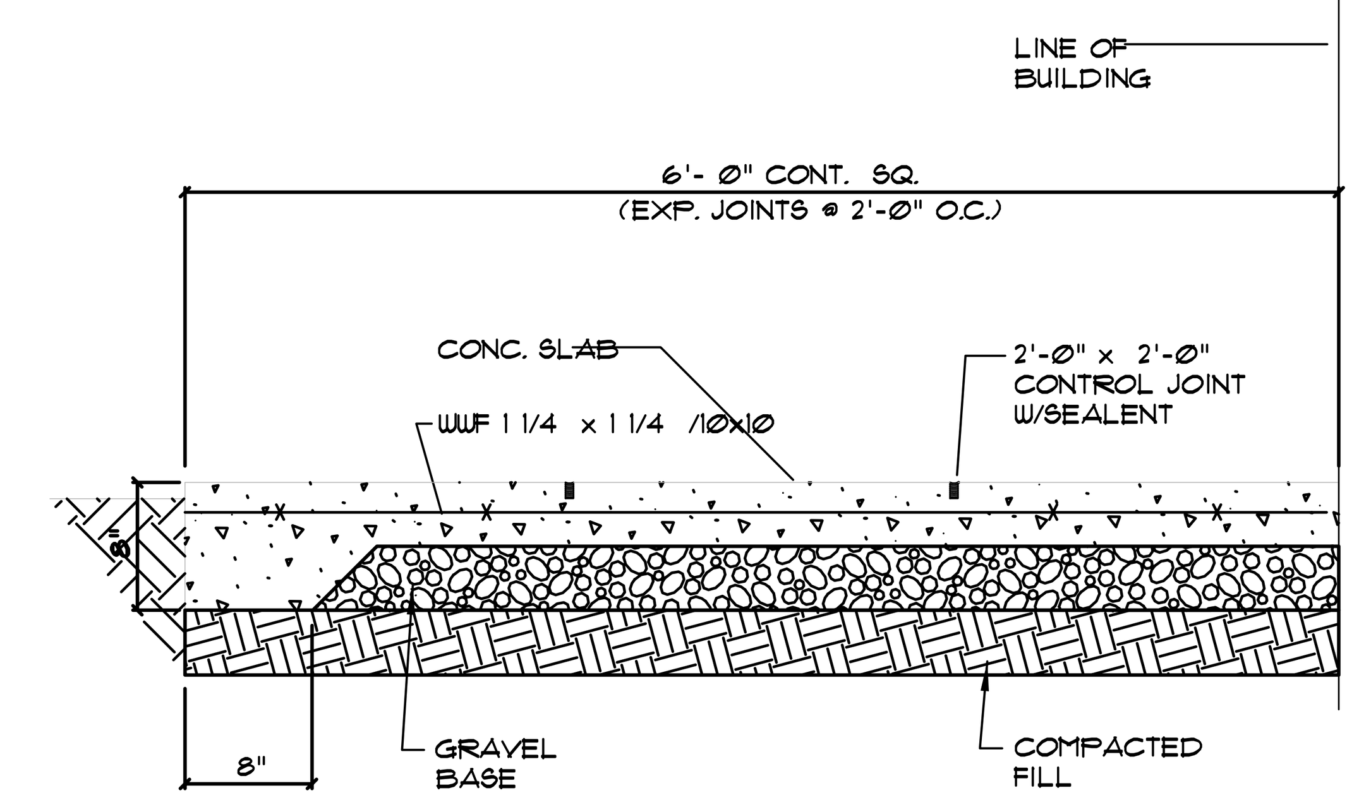
D1 AR501 HEAD & SILL DETAIL @ WINDOW
SCALE: 1½" = 1'-0"



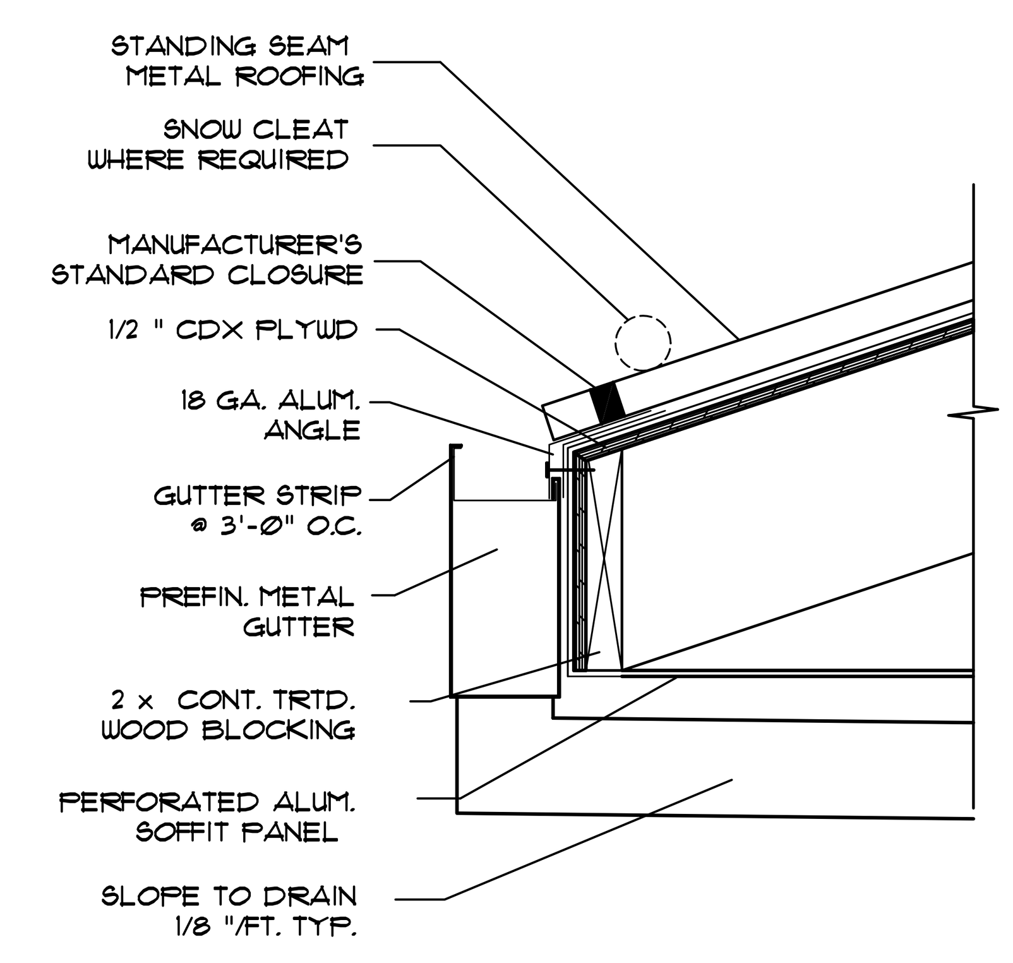
D3 AR501 DRAINAGE BASIN
SCALE: NOT TO SCALE



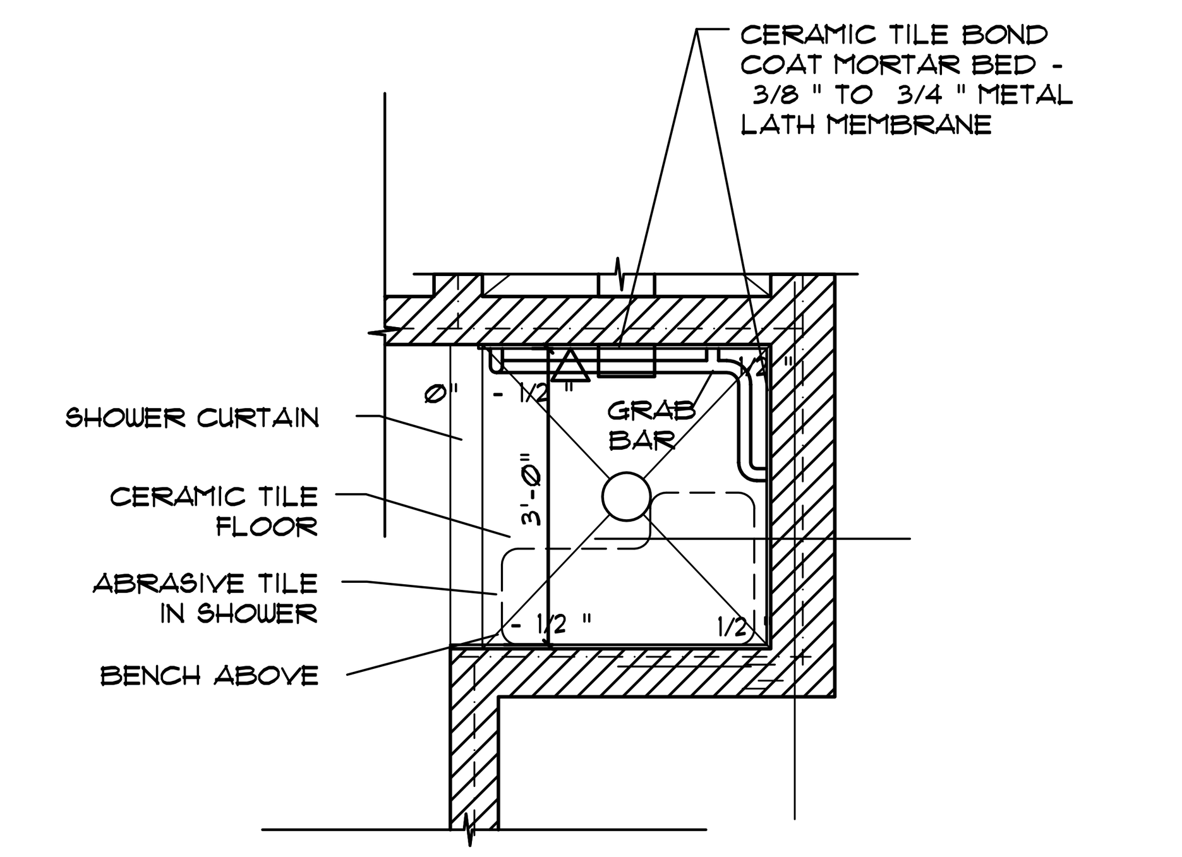
A5 AR501 VENTED RIDGE GAP
SCALE: NOT TO SCALE



A7 AR501 SIDEWALK DETAIL
SCALE: NOT TO SCALE

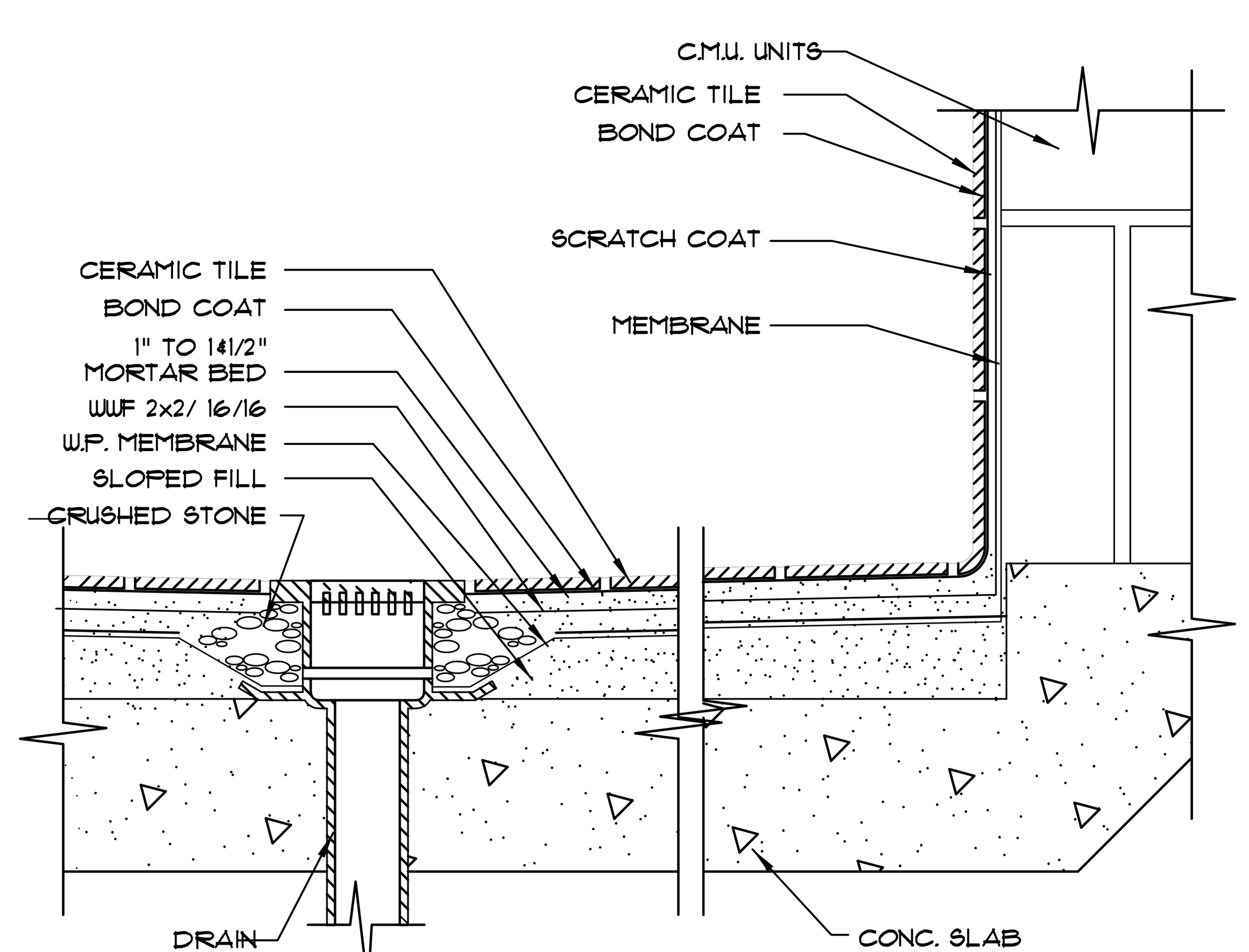


C5 AR501 AWNING SUPPORT DETAIL
SCALE: NOT TO SCALE



NOTE: THE SHOWER SEAT SPECIFIED WILL BE A FOLD-DOWN SEAT COMPLYING WITH ANSI 117.1 (1992 EDITION)

C7 AR501 ENLARGED ACCESSIBLE SHOWER PLAN
SCALE: NOT TO SCALE



D5 AR501 SHOWER TILE FLOOR - ACCESSIBLE SHOWER
SCALE: NOT TO SCALE

DRA Project #
2524.GVR

dave robinson architects
4525 Wasatch Blvd., Suite 301
Salt Lake City, Utah 84124
801-272-0242

State of Utah
Department of Administrative Services
Division of Facilities - Construction & Management
4110 State Office Building
Salt Lake City, Utah 84114
Phone: (801) 538 - 3018
Fax: (801) 538 - 3267
Internet: http://dfcm.utah.gov

NEW RESTROOM & SHOWER FACILITY
FOR
GOBLIN VALLEY STATE PARK
UTAH STATE DIVISION OF FACILITIES AND CONSTRUCTION MANAGEMENT

Revisions	
Date	Item

12-29-05

GOBLIN VALLEY RESTROOMS
AR501
2524.GVR

DOOR SCHEDULE

DOOR NUMBER	ROOM NUMBER	DOOR TYPE	DOOR MATERIAL	DOOR WIDTH	DOOR HEIGHT	DOOR THICK	FRAME TYPE	FRAME MATERIAL	DETAILS HEAD	DETAILS JAMB	DETAILS SILL	GLAZING	REMARKS
101	101	F	HM	3'-0"	7'-0"	1 3/4 "	M1	HM	1/A8.1	2/A8.1	3/A8.1		
102	102	F	HM	3'-0"	7'-0"	1 3/4 "	M1	HM	1/A8.1	2/A8.1	3/A8.1		
102A	102	F	HM	3'-0"	7'-0"	1 3/4 "	M1	HM	1/A8.1	2/A8.1	3/A8.1		
103	103	F	HM	3'-0"	7'-0"	1 3/4 "	M1	HM	1/A8.1	2/A8.1	3/A8.1		
105	105	F	HM	2'-8"	6'-8"	1 3/4 "	M1	HM	1/A8.1	2/A8.1	3/A8.1		4" CURB AT SILL
106	106	G	HM	2'-8"	7'-0"	1 3/4 "	M1	HM	1/A8.1	2/A8.1	3/A8.1	TEMPERED OBSCURE	
107	107	G	HM	2'-8"	7'-0"	1 3/4 "	M1	HM	1/A8.1	2/A8.1	3/A8.1	TEMPERED OBSCURE	
108	108	G	HM	2'-8"	7'-0"	1 3/4 "	M1	HM	1/A8.1	2/A8.1	3/A8.1	TEMPERED OBSCURE	
109	109	G	HM	3'-0"	7'-0"	1 3/4 "	M1	HM	1/A8.1	2/A8.1	3/A8.1	TEMPERED OBSCURE	
010													
011													
012													

HARDWARE SCHEDULE

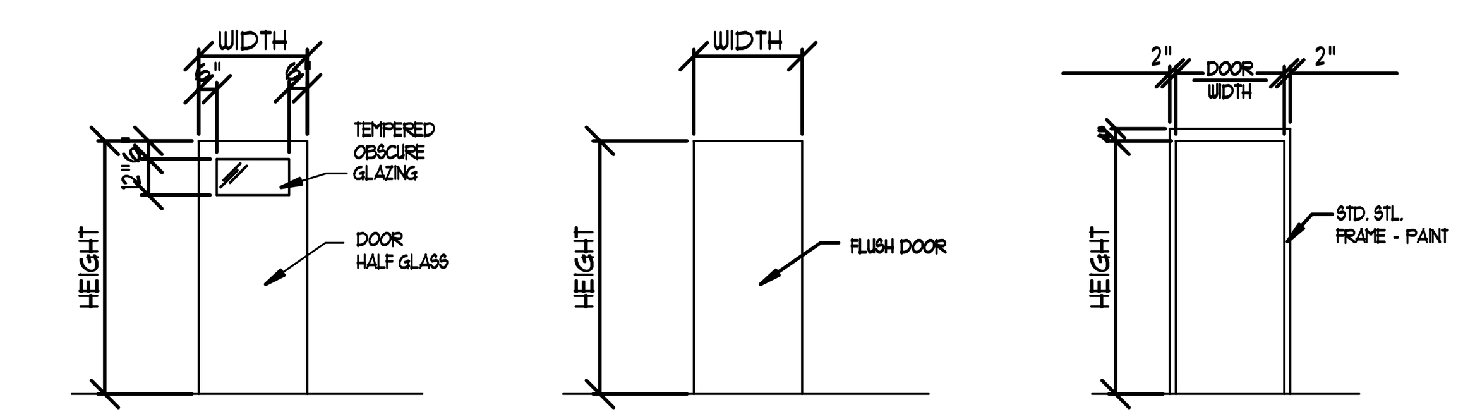
DOOR NUMBER	HINGES: NUMBER	4 1/2 " X 4 1/2 "	BUTTS	BALL BEARING	BRONZE/BRASS	STAINLESS STEEL	STEEL	FINISH	NR. PINS	-	LATCHSET: ENTRANCE	EXIT DEVICE	OFFICE	PASSAGE	PRIVACY	STORE ROOM	DEAD LATCH	MISC.: FLUSH BOLTS	SURFACE BOLTS	CLOSER	CLOSER HO ARM 90d	WALL STOP	FLOOR STOP/HOLDER	HASP	WEATHER STRIP	ASTRAGAL	SWEEP	THRESHOLD	PUSH/ PULL	MOP PLATE	ARMOR PLATE	REMARKS	DOOR NUMBER
101	3		●	●		●			●					●						●		●		●	●			●		●			001
102	3		●	●		●			●							●				●		●			●			●					002
102A	3		●	●		●			●							●				●		●			●			●					003
103	3		●	●		●			●					●						●		●		●	●			●		●			004
105	3		●	●		●			●							●				●			●		●			●					005
106	3		●	●		●			●					●			●				●		●		●			●		●			006
107	3		●	●		●			●					●			●				●		●		●			●		●			007
108	3		●	●		●			●					●			●				●		●		●			●		●			008
109	3		●	●		●			●					●			●				●		●		●			●		●			009
010																																	010
011																																	011
012																																	012

FINISH SCHEDULE

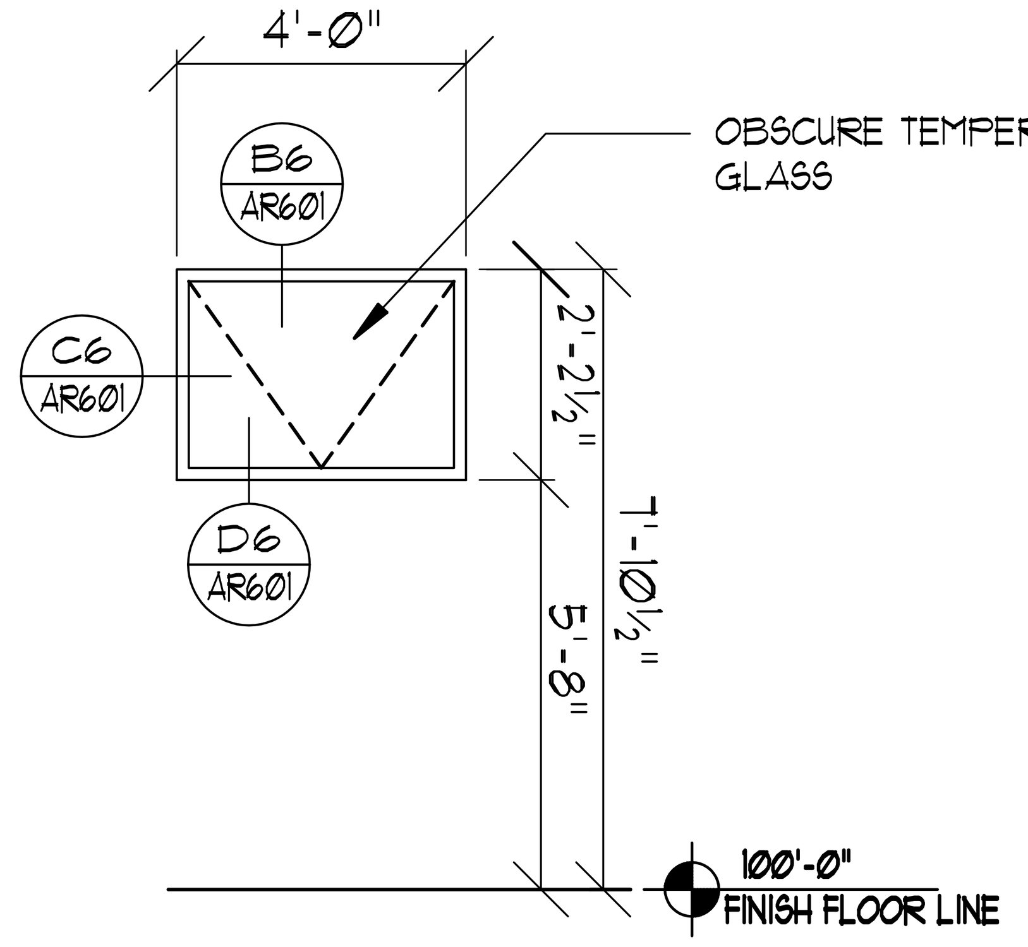
ROOM NUMBER	ROOM NAME	F FLOORING: NONE	SEALED CONCRETE	EPOXY	V.C.T./SHEET VINYL	CERAMIC TILE	CONCRETE		B BASE: EPOXY COVE	NONE			W WALLS: NONE	CONCRETE	CMU	GYPSUM BOARD	FIRE-RATED	EPOXY PAINT	CERAMIC TILE		W WAINSCOT: NONE	CERAMIC TILE - (ALT. #E)			C CEILING: NONE	SUSP. GYPSUM BOARD	SUSPENDED F.R.P.	EXPOSED STRUCTURE	EPOXY PAINT	CEILING HEIGHT	NOTES:	ROOM NUMBER
101	MEN'S RESTROOM			●					●						●			●			●					●			●	9'-5"		101
102	UTILITY ACCESS		●							●					●						●							●		9'-5"		102
103	WOMEN'S RESTROOM			●					●						●			●			●					●			●	9'-5"		103
104	VESTIBULE			●					●						●			●			●					●		●		9'-5"		104
105	BATTERY ROOM			●					●						●			●			●					●			●	9'-5"		105
106	SHOWER #1			●					●						●			●			●					●			●	9'-5"		106
107	SHOWER #2			●					●						●			●			●					●			●	9'-5"		107
108	SHOWER #3			●					●						●			●			●					●			●	9'-5"		108
109	ACCESSIBLE SHOWER			●					●						●			●			●					●			●	9'-5"		109

DOOR & FRAME TYPES

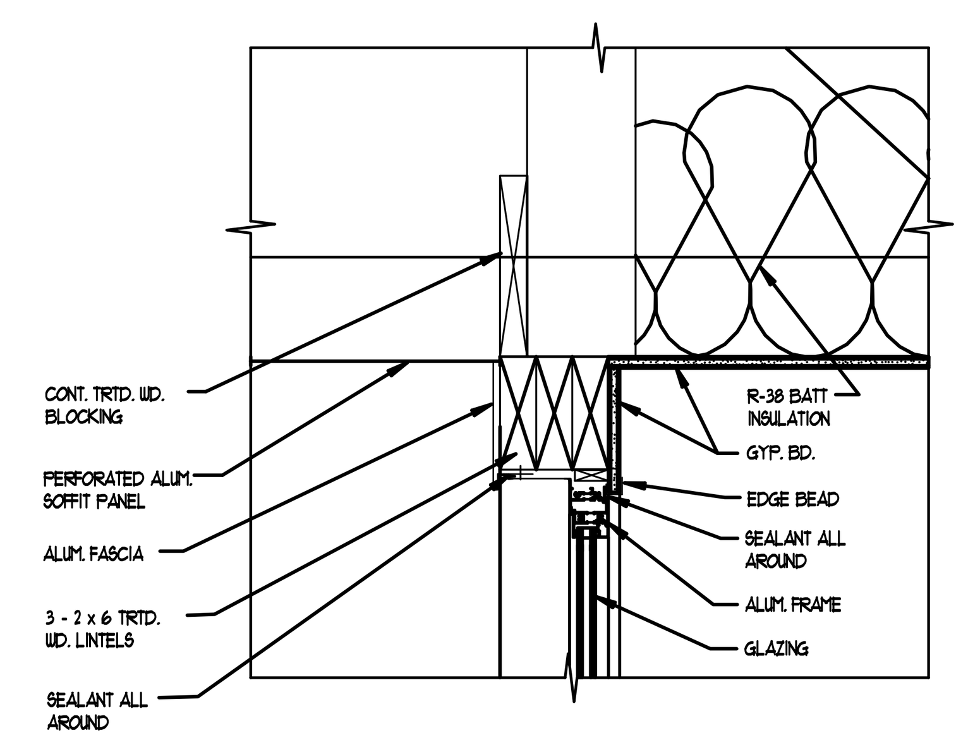
SCALE: NONE



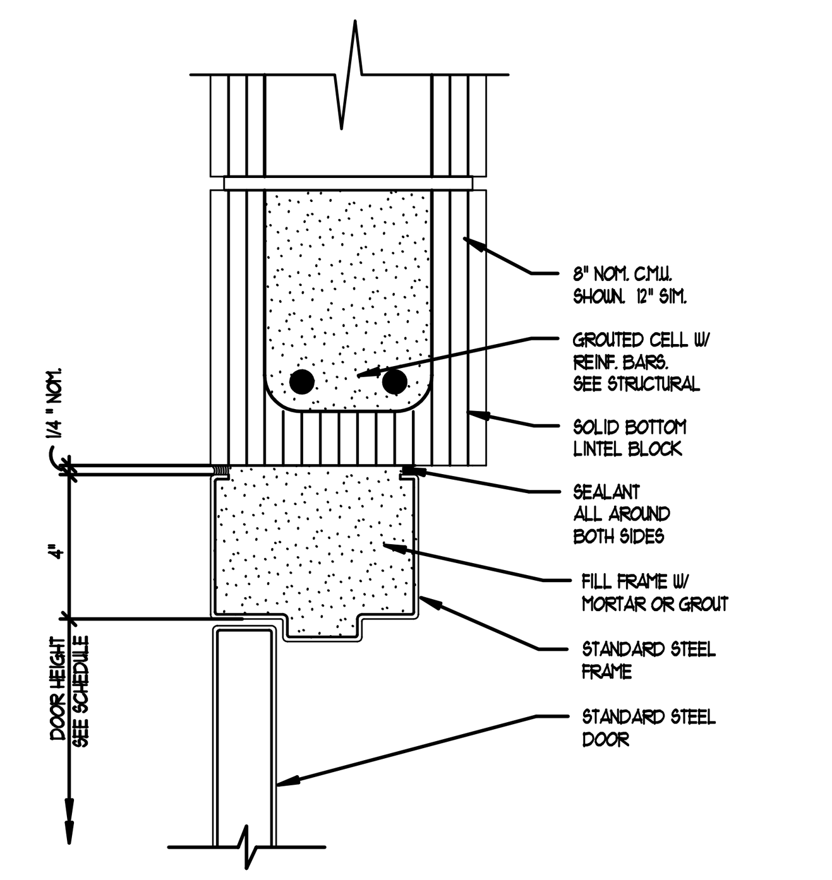
DOOR TYPE G   DOOR TYPE F   FRAME TYPE M1



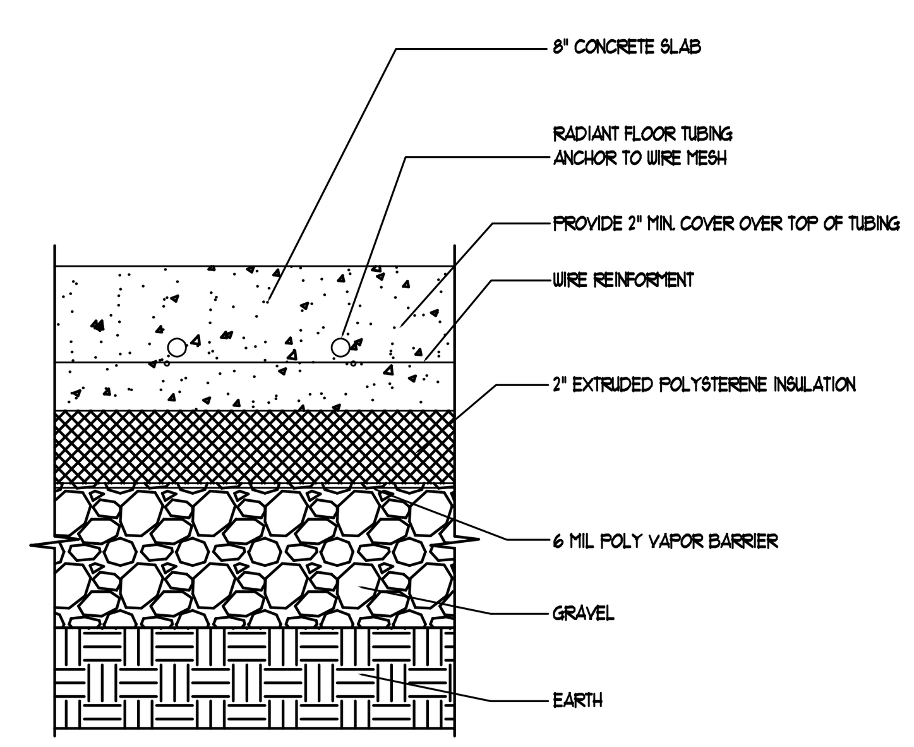
WINDOW TYPE (01)
AWNING OPERATION
w/ HAND CRANK



B6 AR601 WINDOW HEAD / TOP OF WALL
SCALE: NOT TO SCALE

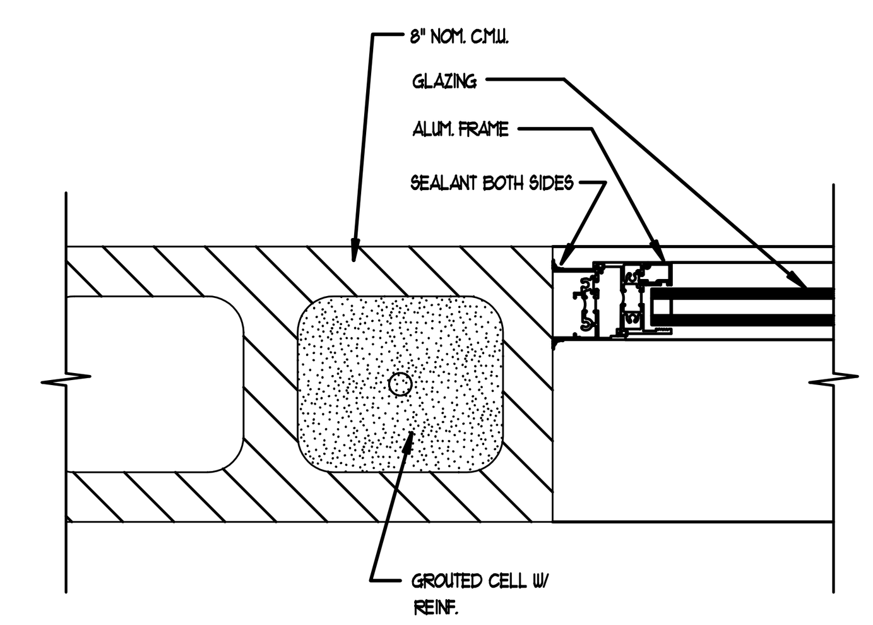


B7 AR601 HEAD DETAIL
SCALE: NOT TO SCALE

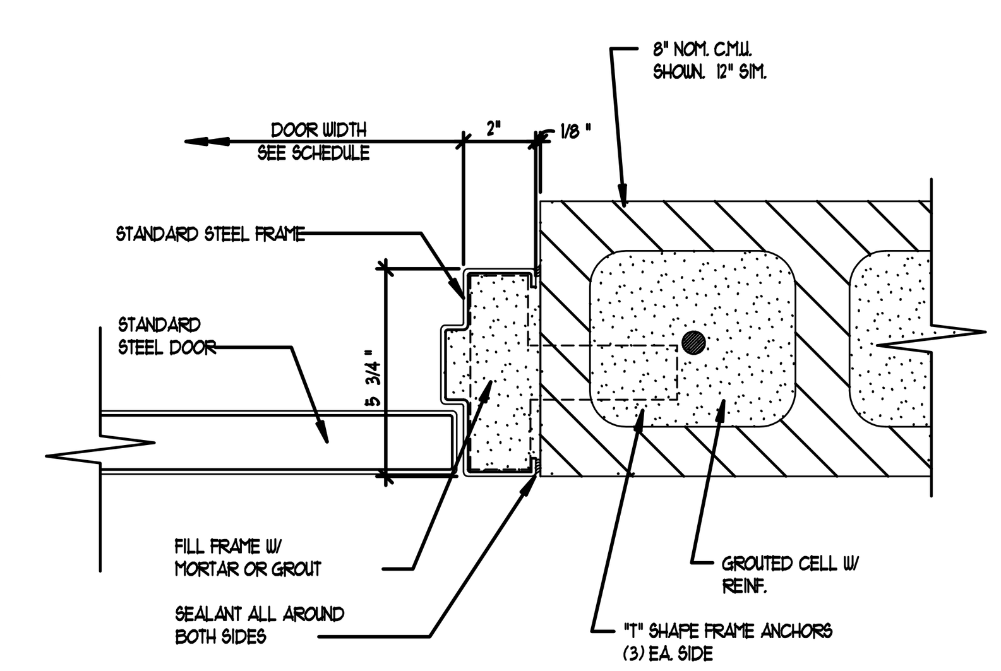


NOTE:
RADIANT FLOOR HEATING SYSTEM PROVIDED BY OTHERS. CONTRACTOR TO COORDINATE w/ OWNER'S HEATING CONTRACTOR.

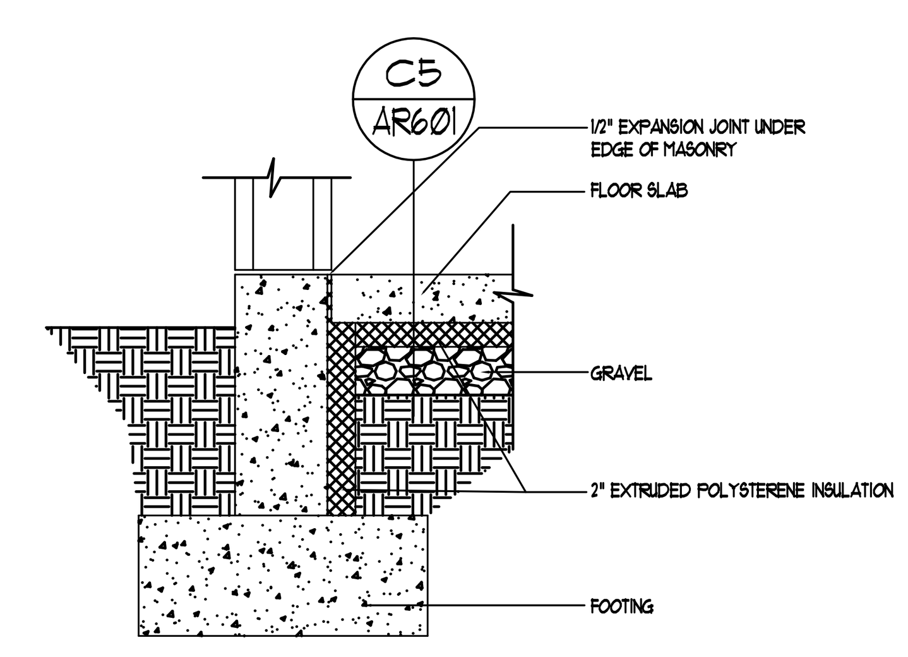
C5 AR601 RADIANT FLOOR DETAIL
SCALE: NOT TO SCALE



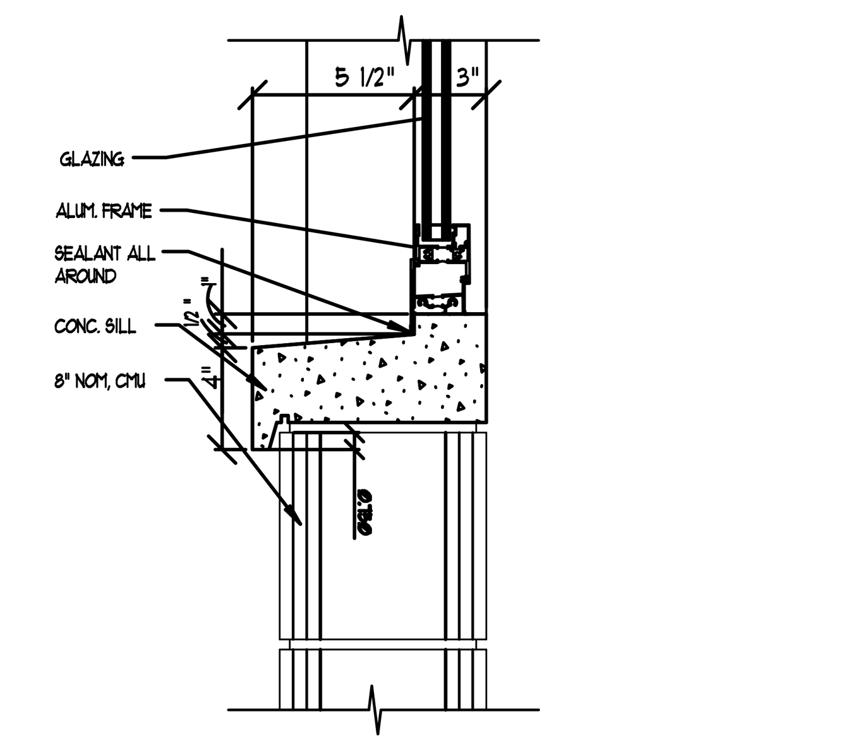
C6 AR601 WINDOW JAMB DETAIL
SCALE: NOT TO SCALE



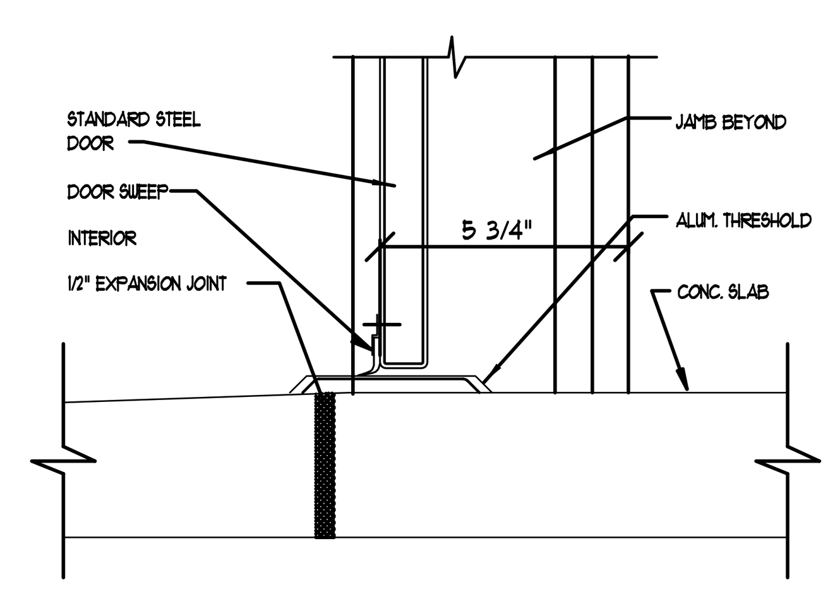
C7 AR601 JAMB DETAIL
SCALE: NOT TO SCALE



D5 AR601 FOOTING DETAIL
SCALE: NOT TO SCALE



D6 AR601 WINDOW SILL DETAIL
SCALE: NOT TO SCALE



D7 AR601 DOOR THRESHOLD
SCALE: NOT TO SCALE

DRA Project #
2524.GVR

dave robinson architects
4525 Wasatch Blvd., Suite 301
Salt Lake City, Utah 84124
801-272-0242

State of Utah
Department of Administrative Services
Division of Facilities - Construction & Management
4110 State Office Building
Salt Lake City, Utah 84114
Phone: (801) 538 - 3018
Fax: (801) 538 - 3267
Internet: http://dfcm.utah.gov

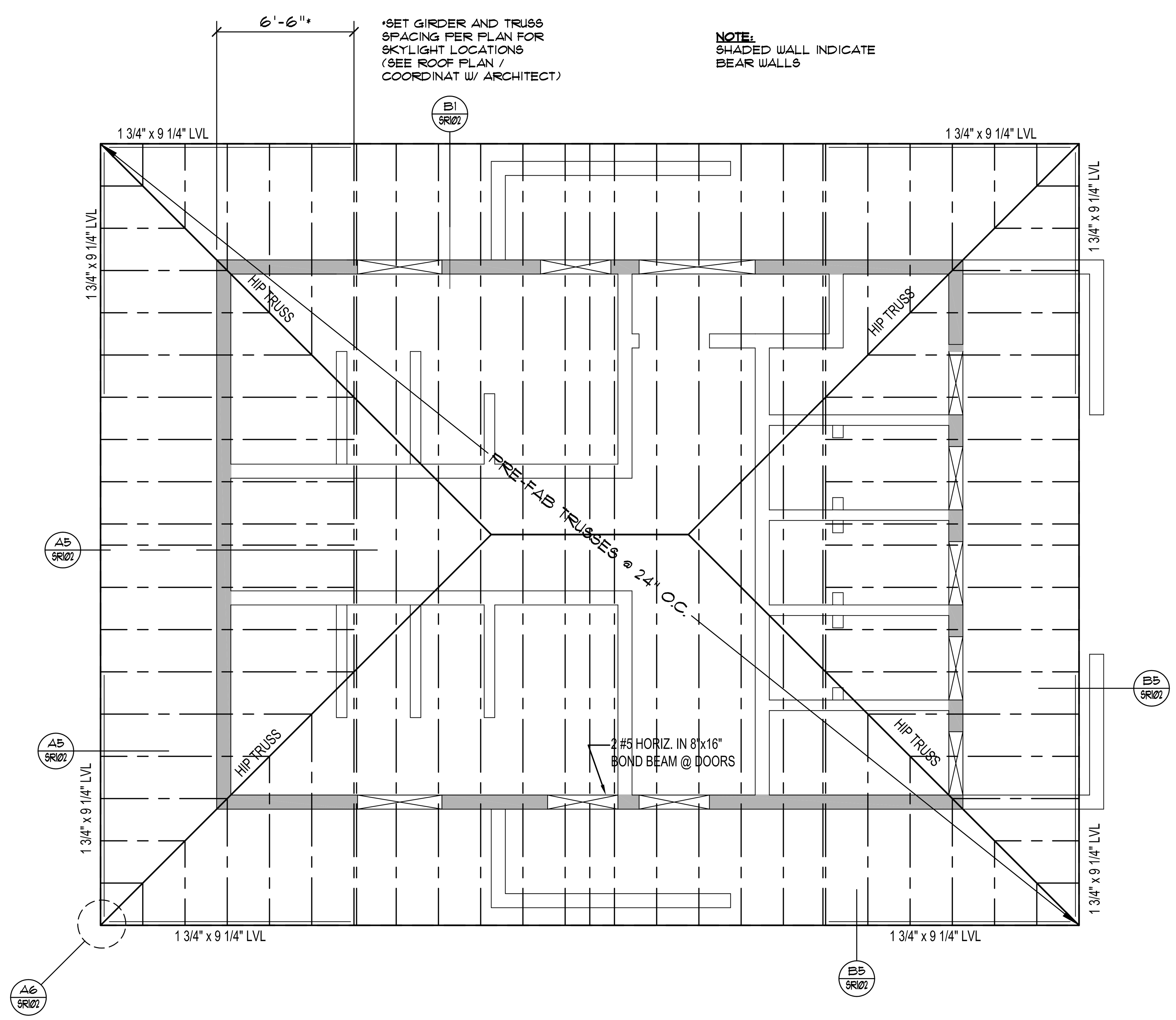
NEW RESTROOM & SHOWER FACILITY
FOR
GOBLIN VALLEY STATE PARK
UTAH STATE DIVISION OF FACILITIES AND CONSTRUCTION MANAGEMENT

Revisions	
Date	Item

12-29-05

GOBLIN VALLEY RESTROOMS
AR601
2524.GVR

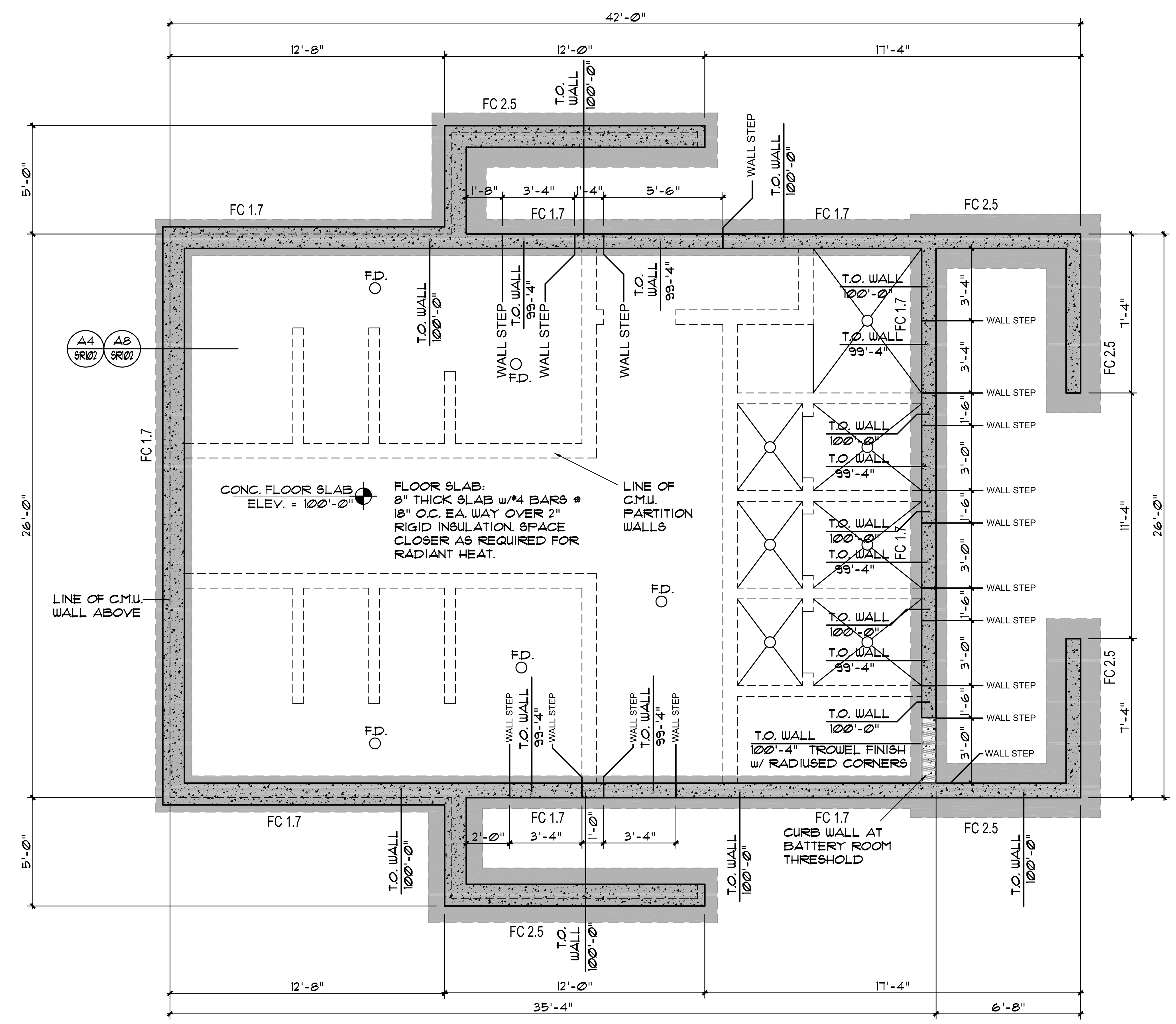
Z:\DRA - Projects\2005 - PROJECTS\2524.GVR - Goblin Valley Restrooms\A-600 - Schedules - GVR.dwg, AR601, 1/6/2006 10:22:10 AM



PLAN NORTH

ROOF FRAMING PLAN

SCALE - 1/4" = 1'-0"



PLAN NORTH

FOOTING & FOUNDATION PLAN

SCALE - 1/4" = 1'-0"

DRA Project #
2524.GVR

dave robinson architects
4525 Wasatch Blvd., Suite 301
Salt Lake City, Utah 84124
801-272-0242

State of Utah
Department of Administrative Services
Division of Facilities - Construction & Management
4110 State Office Building
Salt Lake City, Utah 84114
Phone: (801) 538 - 3018
Fax: (801) 538 - 3267
Internet: http://dfcm.utah.gov

NEW RESTROOM & SHOWER FACILITY
FOR
GOBLIN VALLEY STATE PARK
UTAH STATE DIVISION OF FACILITIES AND CONSTRUCTION MANAGEMENT

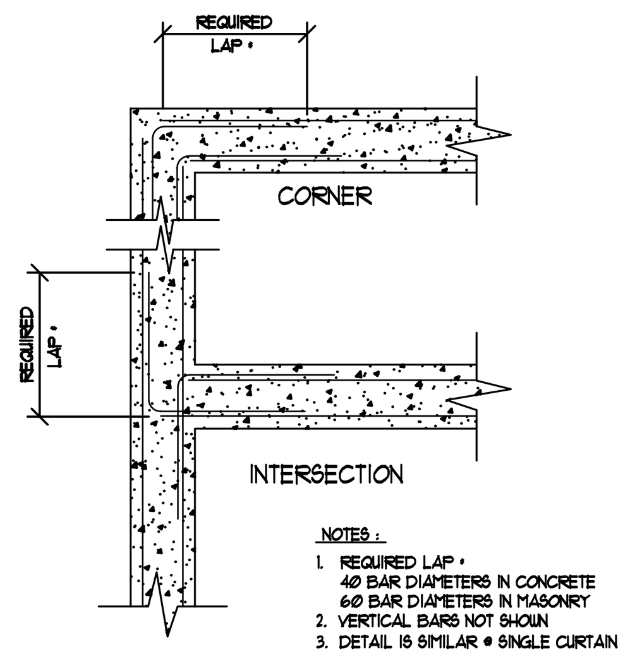
Revisions	
Date	Item

12-29-05

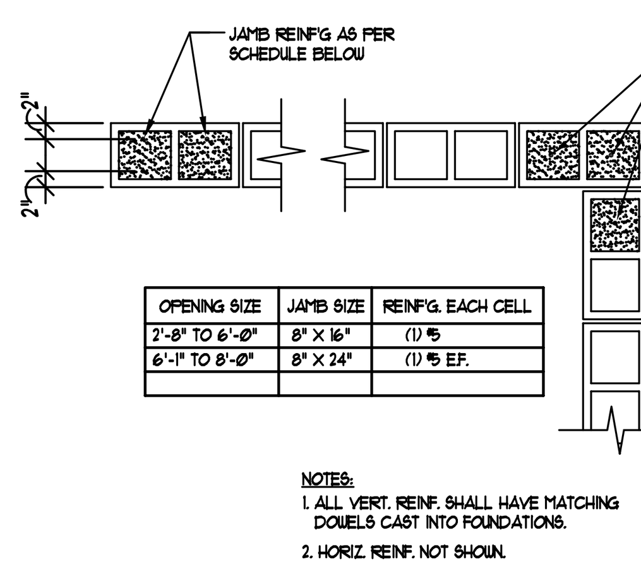
GOBLIN VALLEY RESTROOMS
SR101
2524.GVR

1 2 3 4 5 6 7 8

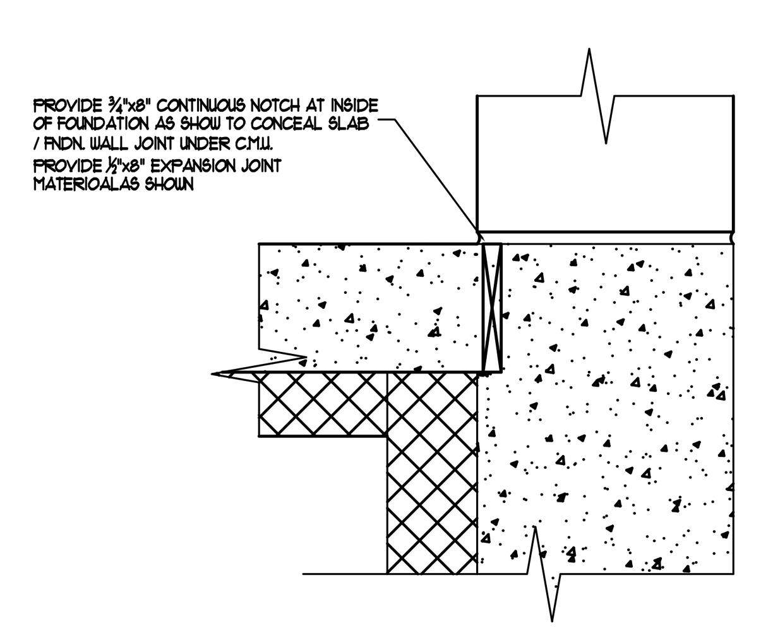
A



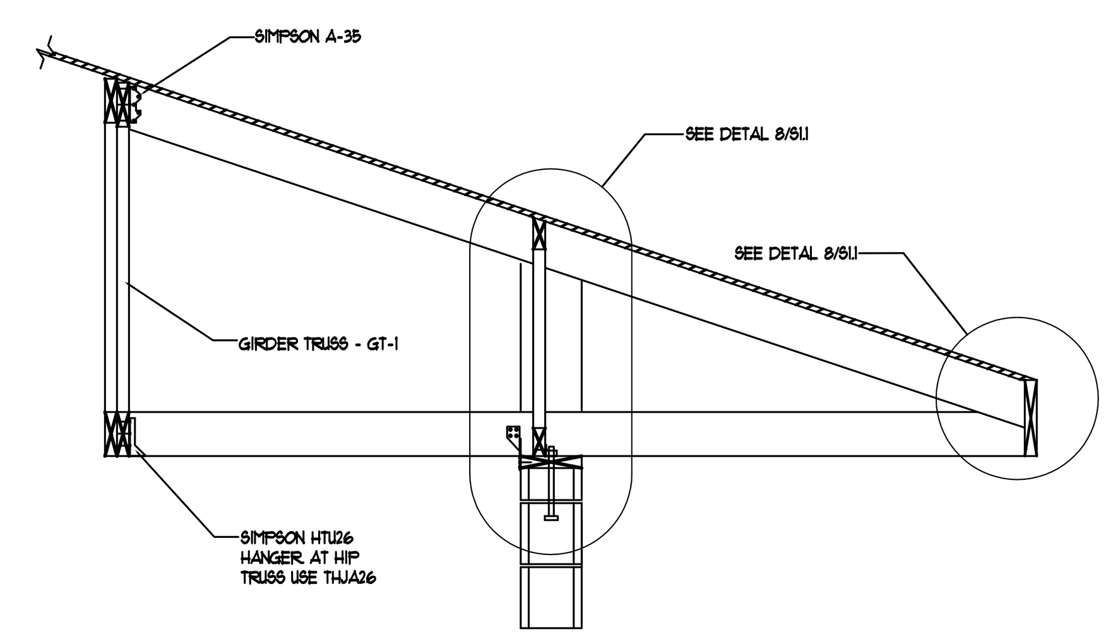
A1 DETAIL
SR102 SCALE: NOT TO SCALE



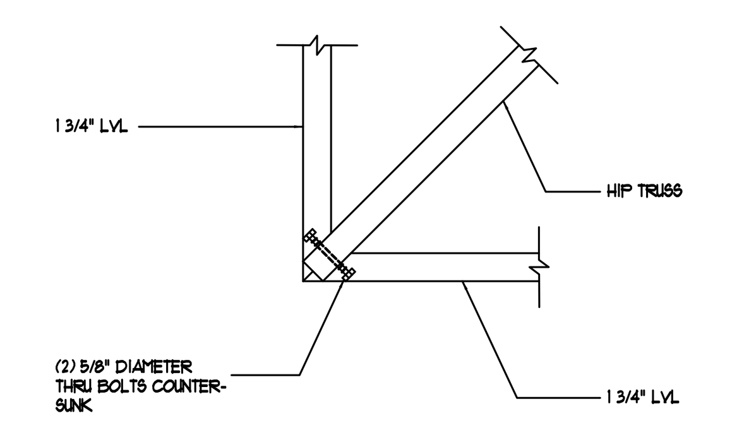
A3 DETAIL
SR102 SCALE: NOT TO SCALE



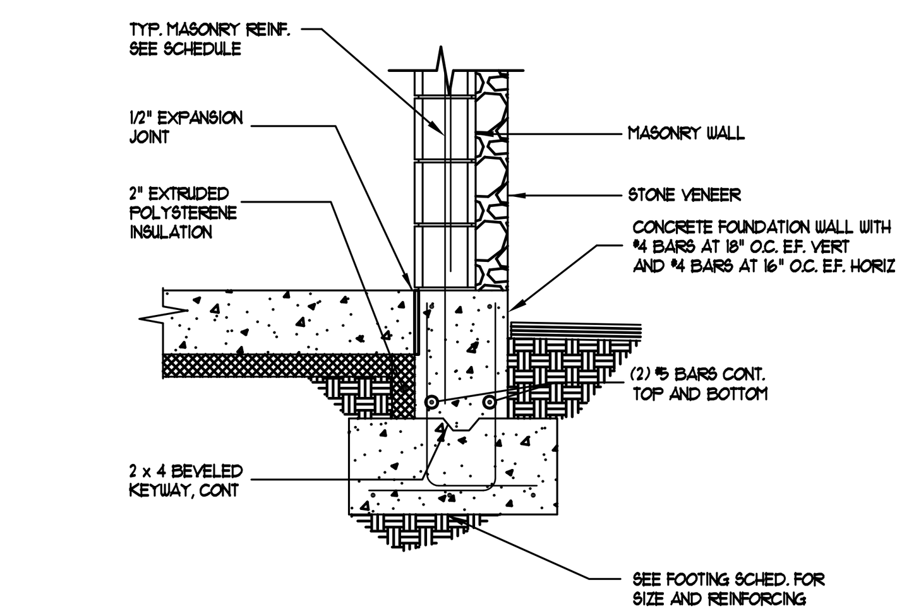
A4 FOUNDATION NOTCH - DETAIL
SR102 SCALE: NOT TO SCALE



A5 DETAIL
SR102 SCALE: NOT TO SCALE

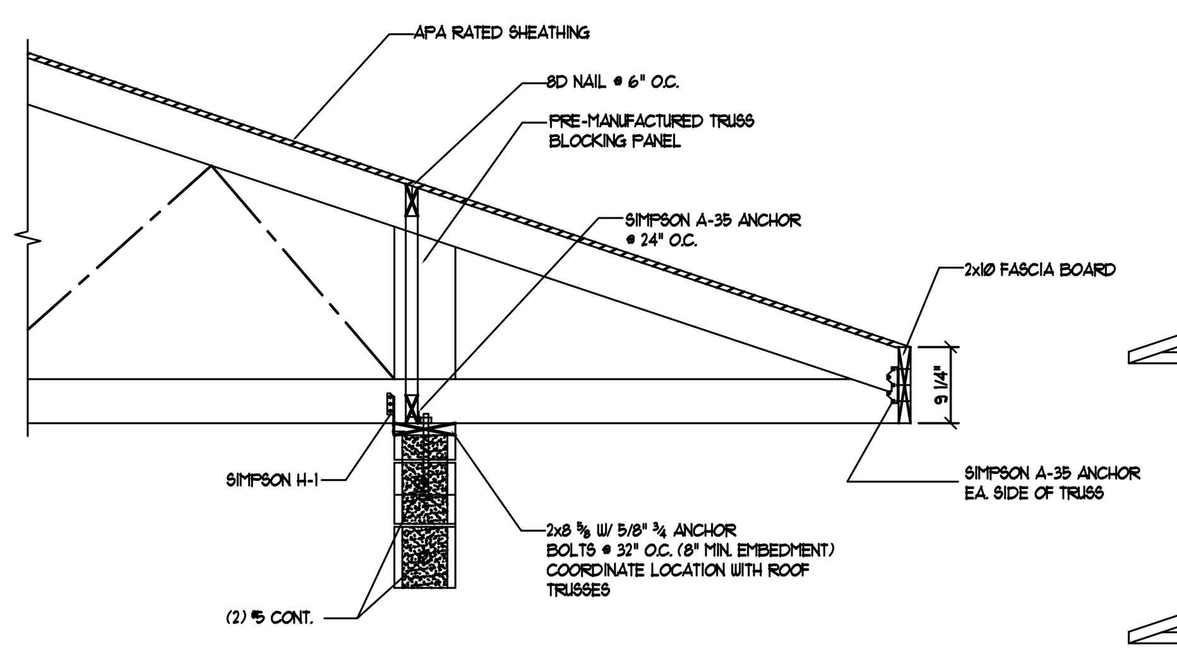


A6 DETAIL
SR102 SCALE: NOT TO SCALE

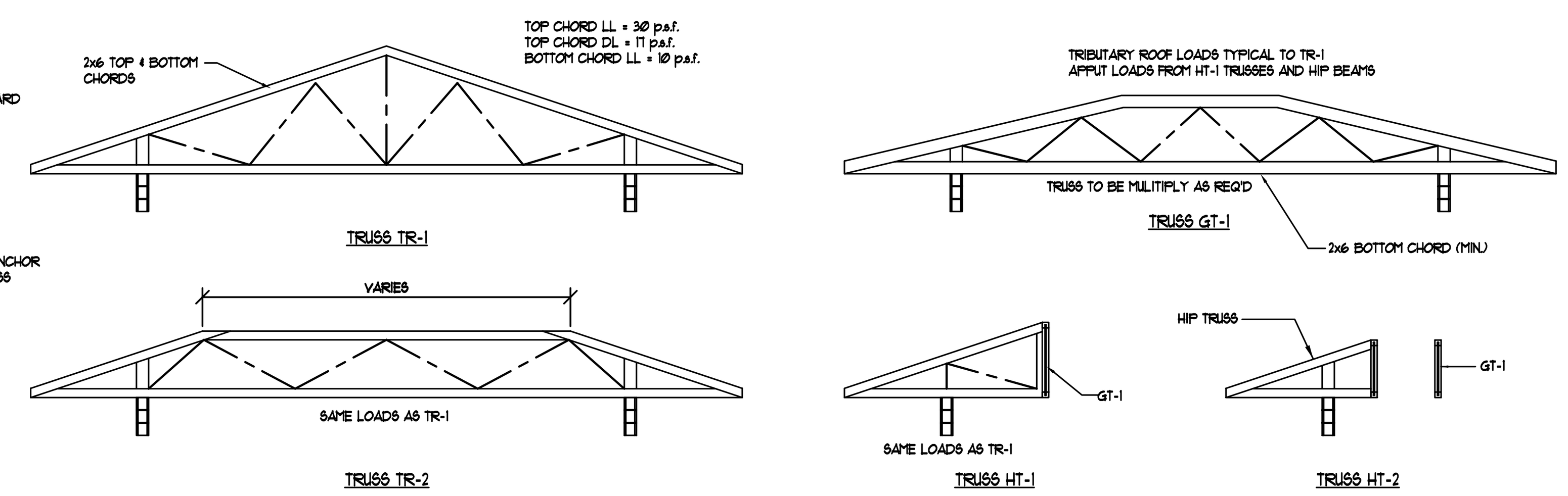


A8 DETAIL
SR102 SCALE: NOT TO SCALE

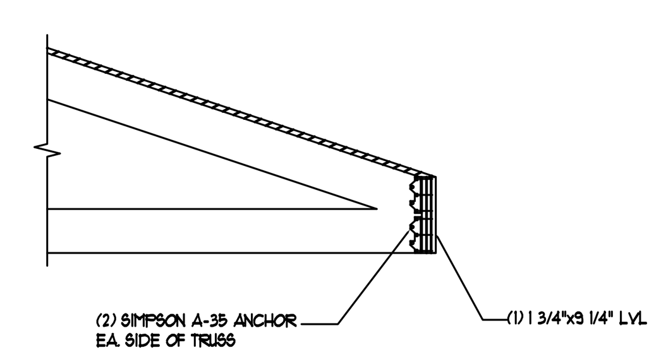
B



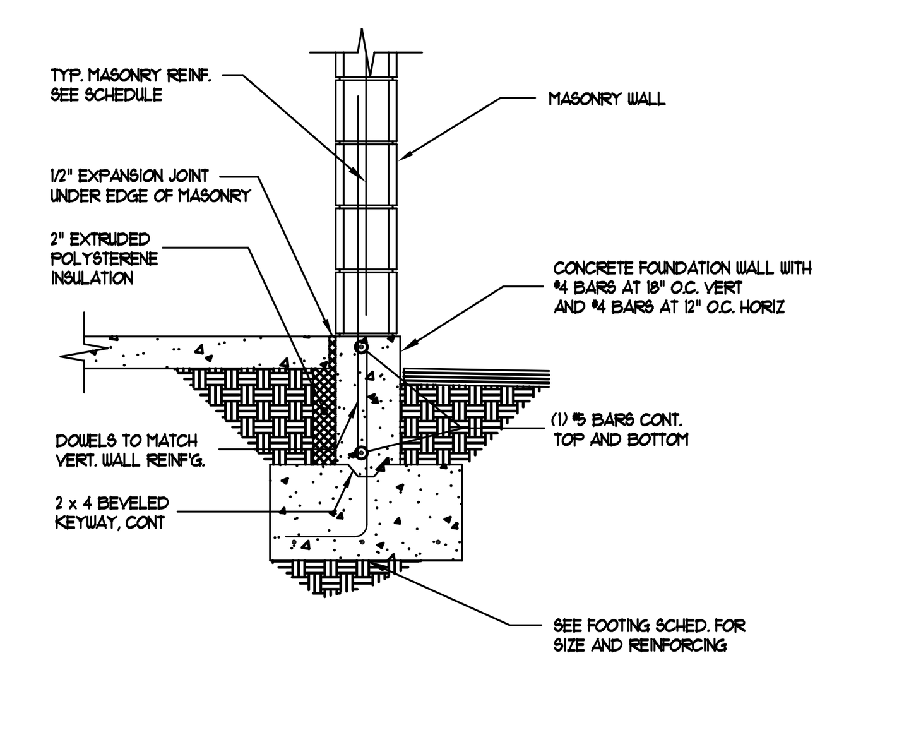
B1 DETAIL
SR102 SCALE: NOT TO SCALE



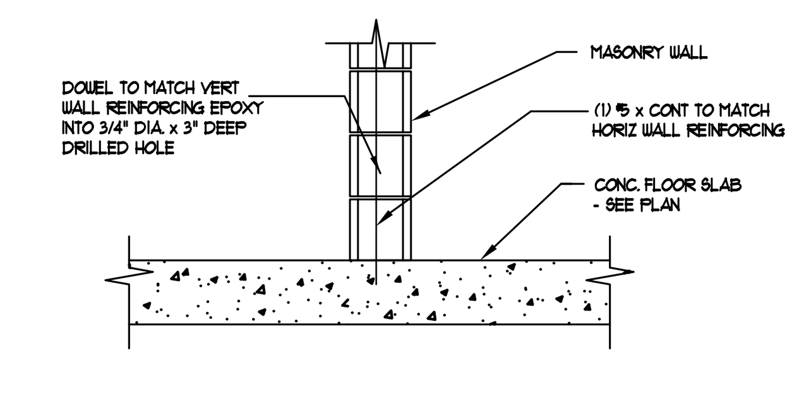
B3 DETAIL
SR102 SCALE: NOT TO SCALE



B5 DETAIL
SR102 SCALE: NOT TO SCALE



B6 DETAIL
SR102 SCALE: NOT TO SCALE



B8 PARTITION WALL @ THICKENED SLAB DETAIL
SR102 SCALE: NOT TO SCALE

C

STRUCTURAL NOTES

A. GENERAL

1. THE STRUCTURAL NOTES ARE INTENDED TO COMPLEMENT THE PROJECT SPECIFICATIONS WHICH ARE PART OF THE CONSTRUCTION DOCUMENTS. SPECIFIC NOTES AND DETAILS ON THE DRAWINGS SHALL GOVERN OVER THE STRUCTURAL NOTES AND TYPICAL DETAILS.
2. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE SITE. IF ACTUAL CONDITIONS DIFFER FROM THOSE SHOWN ON CONTRACT DOCUMENTS, CONTRACTOR SHALL NOTIFY ARCHITECT PRIOR TO FABRICATION OR CONSTRUCTION OF ANY AFFECTED ELEMENTS.
3. ALL OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND STRUCTURAL ENGINEER BEFORE PROCEEDING WITH ANY WORK INVOLVED. IN CASE OF CONFLICT, FOLLOW THE MOST STRINGENT REQUIREMENT AS DIRECTED BY THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.
4. OBSERVATION VISITS TO THE SITE BY STRUCTURAL ENGINEER'S FIELD REPRESENTATIVES SHALL NEITHER BE CONSTRUED AS INSPECTION NOR APPROVAL OF CONSTRUCTION.
5. SEE SPECIFICATIONS FOR REQUIRED SUBMITTALS. SUBMITTALS SHALL BE MADE IN A TIMELY MANNER AS INDICATED IN SPECIFICATIONS. REVIEW OF SUBMITTALS BY STRUCTURAL ENGINEER IS FOR GENERAL COMPLIANCE ONLY AND IS NOT INTENDED AS APPROVAL.
6. DURING AND AFTER CONSTRUCTION, BUILDER AND/OR OWNER SHALL KEEP LOADS ON STRUCTURE WITHIN THE LIMITS OF DESIGN LOADS.
7. TYPICAL DETAILS AND SECTIONS SHALL APPLY WHERE SPECIFIC DETAILS ARE NOT SHOWN.
8. THE CONTRACTOR SHALL SUBMIT A WRITTEN REQUEST TO THE ARCHITECT FOR ARCHITECT AND/OR ENGINEER APPROVAL BEFORE PROCEEDING WITH ANY CHANGES, MODIFICATIONS OR SUBSTITUTIONS.
9. THE CONTRACTOR SHALL PROVIDE ADEQUATE TEMPORARY SHORING AND BRACING FOR ALL STRUCTURAL ELEMENTS UNTIL THE ENTIRE STRUCTURAL SYSTEM IS COMPLETED.
10. DRAWINGS AND DETAILS HAVE BEEN PREPARED WITH THE INTENT TO VISUALLY REPRESENT INFORMATION PROVIDED IN SCALED FORM, HOWEVER CONTRACTOR/SUPPLIERS SHOULD NOT SCALE PLANS OR DETAILS FOR DIMENSIONAL INFORMATION.

B. BASIS OF DESIGN

1. GOVERNING BUILDING CODE: IBC 2003
2. SEISMIC DESIGN: S_{DS} =0.357
3. WIND DESIGN: BASIC WIND SPEED = 90 MPH, EXPOSURE = C
4. ROOF SNOW LOAD = 30 PSF

C. FOUNDATION

1. DESIGN SOIL PRESSURE: 1,500 PSF - CONTRACTOR TO INSURE 95% COMPACTION INCLUDING AREA OF DEMOLITION & EXCAVATION.
2. ALL FOOTINGS SHALL BE PLACED ON MECHANICALLY COMPACTED FILL COMPACTED TO NOT LESS THAN 95% OF MODIFIED PROCTOR DENSITY (ASTM D-1557).
3. UNLESS OTHERWISE NOTED, ALL CONCRETE SLABS ON EARTH SHALL BEAR ON STRUCTURAL FILL COMPACTED TO 90% OF MODIFIED PROCTOR DENSITY (ASTM D-1557).
4. TOP OF FOOTING ELEVATIONS SHOWN ON THE FOOTING AND FOUNDATION PLAN ARE BASED ON PRELIMINARY GRADING INFORMATION AND MUST BE VERIFIED PRIOR TO CONSTRUCTION. STEPS WHERE SHOWN ARE AT APPROXIMATE LOCATIONS. ALL EXTERIOR FOOTINGS MUST BEAR A MINIMUM OF 30 INCHES BELOW LOWEST ADJACENT FINAL GRADE.

D. CONCRETE

1. ALL CONCRETE SHALL HAVE A DESIGN 28-DAY COMPRESSIVE STRENGTH AS FOLLOWS:
   A. FOOTINGS, FOUNDATION WALLS, & INTERIOR SLABS....4000 PSI
   B. EXTERIOR SLABS, WALKS, CURBS & GUTTERS..........4000 PSI
2. NO PIPES, DUCTS, SLEEVES, ETC. SHALL BE PLACED IN STRUCTURAL CONCRETE UNLESS SPECIFICALLY DETAILED OR APPROVED BY STRUCTURAL ENGINEER. NO ALUMINUM PRODUCTS SHALL BE EMBEDDED IN CONCRETE.
3. REFER TO ARCHITECTURAL DRAWINGS FOR MOLDS, GROOVES, ORNAMENTS, ETC. TO BE CAST IN TO CONCRETE, AND FOR EXTENT AND LOCATION OF DEPRESSIONS, CURBS, RAMPS, ETC..
4. UNLESS OTHERWISE NOTED, MINIMUM REINFORCING IN ALL CONCRETE FOUNDATION WALLS SHALL BE AS FOLLOWS:

   # 4 BARS @ 18' O.C. VERT. & HOR.

5. UNLESS OTHERWISE NOTED, MAKE ALL CONCRETE SLABS ON EARTH AT LEAST 4" THICK.
6. CONSTRUCTION JOINTS NOT SHOWN ON THE PLANS SHALL BE MADE AND LOCATED SO AS TO NOT IMPAIR THE STRENGTH OF THE STRUCTURE AND AS APPROVED BY THE STRUCTURAL ENGINEER. PROVIDE 2 X 4 (SHAPED) KEYWAY IN ALL VERTICAL AND HORIZONTAL JOINTS. ALL STEEL REINFORCING SHALL BE CONTINUOUS THROUGH COLD JOINTS UNLESS NOTED OTHERWISE.
7. EVERY EFFORT SHALL BE MADE TO PROVIDE A LEVEL FINISHED FLOOR. WHEN PLACING CONCRETE, SCREEDS SHALL BE RE-SET AFTER INITIAL SCREEDING TO ACCOUNT FOR DEFLECTION DUE TO CONCRETE WEIGHT.

E. REINFORCING STEEL

1. ALL REINFORCING BARS SHALL CONFORM TO ASTM STANDARD A-615 GRADE 60. ADEQUATELY TIE AND SUPPORT ALL REINFORCING STEEL AS SPECIFIED BY ACI 315, TO MAINTAIN EXACT REQUIRED POSITION. ALL FIELD BENT DOWELS SHALL BE GRADE 40 WITH SPACINGS INDICATED REDUCED BY 1/3.
2. REINFORCEMENT SHALL HAVE THE FOLLOWING CONCRETE COVERAGE:
   A. CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH.......3"
   B. EXPOSED TO EARTH OR WEATHER:
      1. #6 & LARGER .... 2"
      2. #5 & SMALLER .... 1-1/2"
   C. NOT EXPOSED TO WEATHER OR EARTH:
      1. SLABS, WALLS, #11 & SMALLER............3/4"
3. EXCEPT WHERE NOTED, CONTINUOUS REINFORCEMENT SHALL BE SPLICED AT POINTS OF MINIMUM STRESS BY LAPPING 48 BAR DIAMETERS IN CONCRETE 60 BAR DIAMETERS IN MASONRY.
4. ALL VERTICAL REINFORCING SHALL BE DOWELED TO FOOTINGS OR STRUCTURE BELOW WITH DOWELS TO MATCH. SPLICE LENGTHS SHALL COMPLY WITH NOTE F.3. DOWELS INTO FOOTINGS SHALL TERMINATE WITH A STANDARD HOOK.
5. DO NOT WELD REINFORCING.

F. MASONRY

1. ALL HOLLOW MASONRY UNITS SHALL CONFORM TO ASTM C-90 TYPE N-1.
2. ALL MASONRY WORK SHALL CONFORM TO CHAPTER 21 OF THE 2003 INTERNATIONAL BUILDING CODE.
3. UNLESS OTHERWISE NOTED MINIMUM REINFORCING IN ALL 8" MASONRY WALLS SHALL BE AS FOLLOWS:
   A. VERTICAL: # 5 BARS IN CELLS ADJACENT TO ALL OPENINGS, AT CORNERS AND AT A MAXIMUM SPACING OF 32" THROUGHOUT WALL. ALL VERTICAL REINFORCEMENT SHALL BE DOWELED TO FOUNDATION.
   B.HORIZONTAL: (1) #5 BARS IN 8" DEEP "H" BLOCK BOND BEAM UNITS AT 48" O.C. AND AT TOP OF WALL
4. UNLESS OTHERWISE NOTED MINIMUM REINFORCING IN ALL 6" CMU SHALL BE AS FOLLOWS:
   A. VERTICAL: # 5 BARS IN CELLS ADJACENT TO ALL OPENINGS, AT CORNERS AND AT A MAXIMUM SPACING OF 32" THROUGHOUT WALL. ALL VERTICAL REINFORCEMENT SHALL BE DOWELED TO FOUNDATION.
   B. HORIZONTAL: #4 BARS IN 8" DEEP "H" BLOCK BOND BEAM UNITS AT 48" O.C. AND AT TOP OF WALL
5. ALL BLOCK CELLS CONTAINING REINFORCING, BOLTS, OR ANCHORS SHALL BE GROUTED SOLID.
6. PROVIDE (1) #5 BAR (MINIMUM), IN GROUTED SPACE, ON ALL SIDES AND ADJACENT TO EVERY OPENING WHICH EXCEEDS 24" IN EITHER DIRECTION. HORIZONTAL BARS SHALL EXTEND 24" BEYOND THE CORNERS OF THE OPENING AND VERTICAL BARS SHALL EXTEND TO TOP OF WALL. VERTICAL REINFORCING SHALL BE PROVIDED AT ENDS, CORNERS AND EACH SIDE OF CONTROL JOINTS. SEE TYPICAL DETAILS FOR OPENINGS WHICH EXCEED 32" IN EITHER DIRECTION.
7. SOLID GROUTING OF MASONRY IS UNACCEPTABLE EXCEPT AS SPECIFICALLY NOTED ON PLANS AND SCHEDULES.
8. WHERE WALLS ARE NOT GROUTED SOLID, EACH GROUT POUR SHALL TERMINATE FLUSH WITH THE TOP OF THE UPPERMOST UNIT EXCEPT AT CELLS WITH VERTICAL REINFORCING WHERE GROUT SHALL BE 1-1/2" BELOW TOP OF UNIT TO PROVIDE CONSTRUCTION KEY.
9. GROUT POURS SHALL NOT EXCEED 4'-0" UNLESS HIGH LIFT GROUTING PROCEDURES ARE FOLLOWED.
10. GROUT STOP SHALL BE RESIN COATED FIBERGLASS MESH 1-1/2" NARROWER THAN WALL THICKNESS. OTHER GROUT STOP MATERIALS ARE NOT PERMITTED.
11. GROUT SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI AT 28 DAYS AND SHALL BE PLACED WITH SUFFICIENT WATER FOR POURING WITHOUT SEGREGATION. DO NOT USE MORTAR FOR GROUT. GROUT SHALL BE PROPORTIONED PER TABLE 21-B OF THE UBC. MECHANICALLY VIBRATE ALL GROUT.
12. MORTAR SHALL BE TYPE S AND OBTAIN A MINIMUM COMPRESSIVE STRENGTH OF 1800 PSI AT 28 DAYS. MORTAR SHALL BE PROPORTIONED ACCORDING TO TABLE 2103.10 OF THE INTERNATIONAL BUILDING CODE.
13. ALL MASONRY BEAMS SHALL BE BUILT INTEGRAL WITH SUPPORT. NO TOOTHING OR DOWELLING PERMITTED. UNITS WITH ONE END OPEN SHALL BE USED FOR ALL MASONRY.

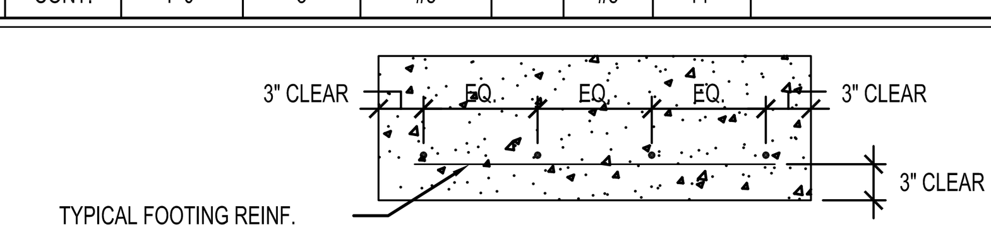
G. TIMBER

1. ALL FRAMING LUMBER SHALL BE DOUGLAS FIR/LARCH CLEARLY MARKED WITH A STAMP BY WWPA APPROVED AGENCY.
2. WOOD GRADES (UNLESS OTHERWISE NOTED)
   A. HORIZONTAL MEMBERS: JOISTS & RAFTERS: NO. 2, BEAMS & STRINGERS: NO. 1
   B. VERTICAL MEMBERS: POST & TIMBERS: NO. 2, STUDS: NO. 1
3. PLYWOOD ROOF SHEATHING SHALL BE 19/32" THICK APA RATED SHEATHING, EXPOSURE I WITH A PANEL INDEX OF 24/0. BLOCK ALL PANEL EDGES.
4. UNLESS OTHERWISE NOTED, ALL PLYWOOD SHEATHING SHALL BE NAILED TO SUPPORTING JOISTS, LEDGERS OR BLOCKING WITH 8d COMMON NAILS AS FOLLOWS: (NAILS SHALL BE GALVANIZED AT EXPOSED LOCATIONS).
   A. 6" O.C. AT ALL ROOF EDGES AND BLOCKING LOCATIONS.
   B. 6" O.C. AT ALL OTHER PLYWOOD PANEL EDGES.
   C. 12" O.C. AT INTERIOR SUPPORTS IN FIELD OF PANEL.
5. ALL WOOD TRUSSED RAFTERS SHALL BE FABRICATED IN COMPLIANCE WITH THE RESEARCH COMMITTEE RECOMMENDATIONS OF THE ICBO FOR THE CONNECTOR PLATES USED. SUBMIT DESIGN CALCULATIONS WITH ENGINEERS SEAL FOR REVIEW WITH SHOP DRAWINGS.
6. ALL LAMINATED VENEER LUMBER (LVL) SHALL AN ALLOWABLE EXTREME FIBER BENDING STRESS OF 2,600 PSI.
7. ALL FRAMING ANCHORS, POST CAPS, HOLD DOWNS, COLUMN BASES ETC. TO BE PROVIDED BY SIMPSON OR APPROVED EQUAL.
8. ALL BOLTS THRU WOOD SHALL HAVE WASHERS UNDER NUTS AND BOLT HEADS.
9. ALL FRAMING IN CONTACT WITH FOOTINGS, FOUNDATIONS OR SLABS ON GRADE SHALL BE PRESSURE TREATED OR CALIFORNIA REDWOOD WITH EQUIVALENT STRESS GRADES TO TYPICAL FRAMING MEMBERS.

D

FOOTING SCHEDULE

MARK	WIDTH	LENGTH	THICK	LENGTHWISE REINF. NO.	LENGTHWISE REINF. SIZE	CROSSWISE REINF. NO.	CROSSWISE REINF. SIZE	CROSSWISE REINF. SPA.	REMARKS
FC1.5	NOT USED	-	-	-	-	--	--	--	
FC1.7	1'-8"	CONT.	1'-0"	2	#5	--	--	--	
FC2.5	2'-6"	CONT.	1'-0"	3	#5	--	#5	14"	



TYPICAL FOOTING SECTION

1 2 3 4 5 6 7 8

DRA Project #
2524.GVR

dave robinson architects
4525 Wasatch Blvd., Suite 301
Salt Lake City, Utah 84124
801-272-0242

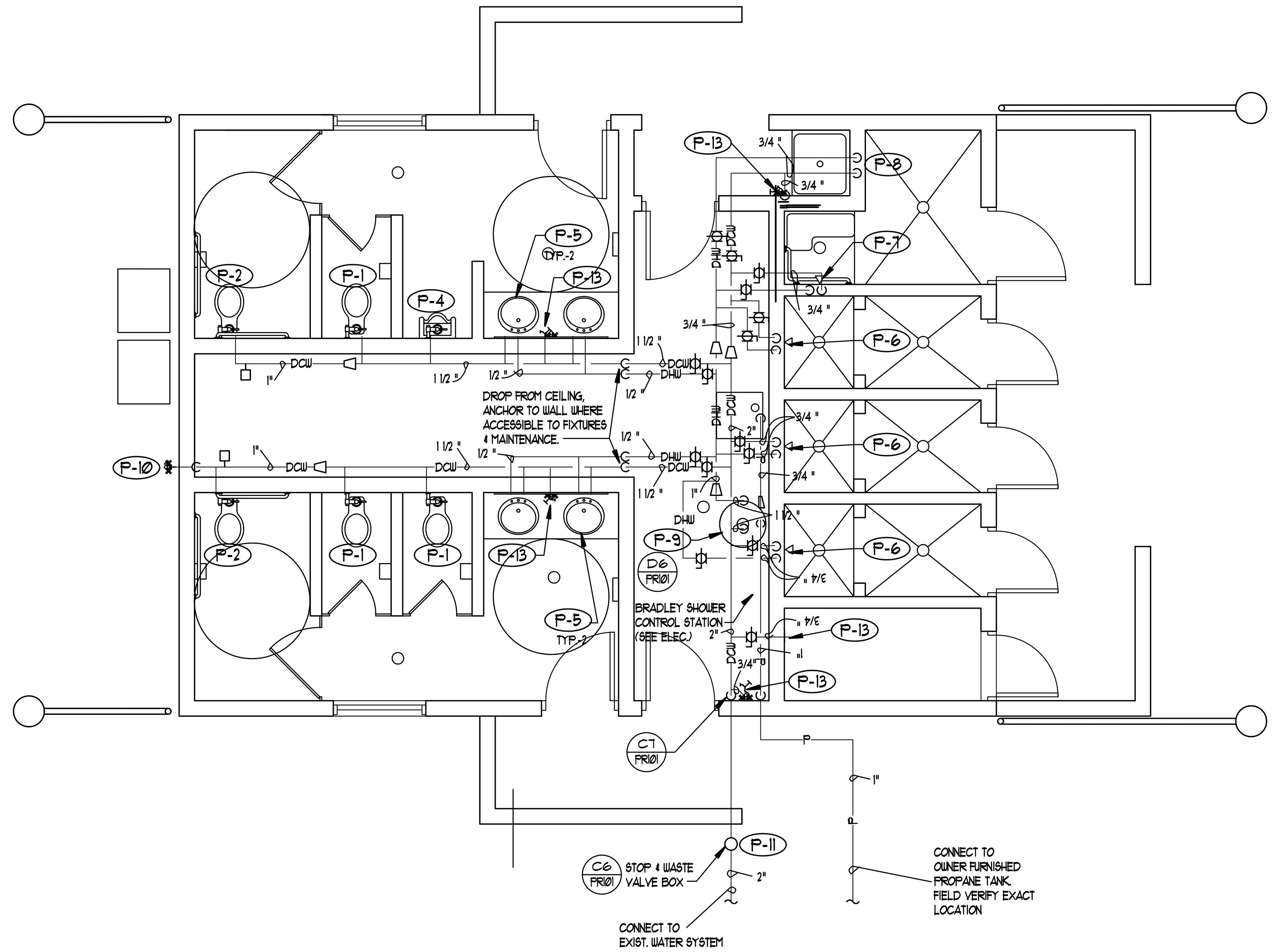
State of Utah
Department of Administrative Services
Division of Facilities - Construction & Management
4110 State Office Building
Salt Lake City, Utah 84114
Phone: (801) 538 - 3018
Fax: (801) 538 - 3267
Internet: http://dfcm.utah.gov

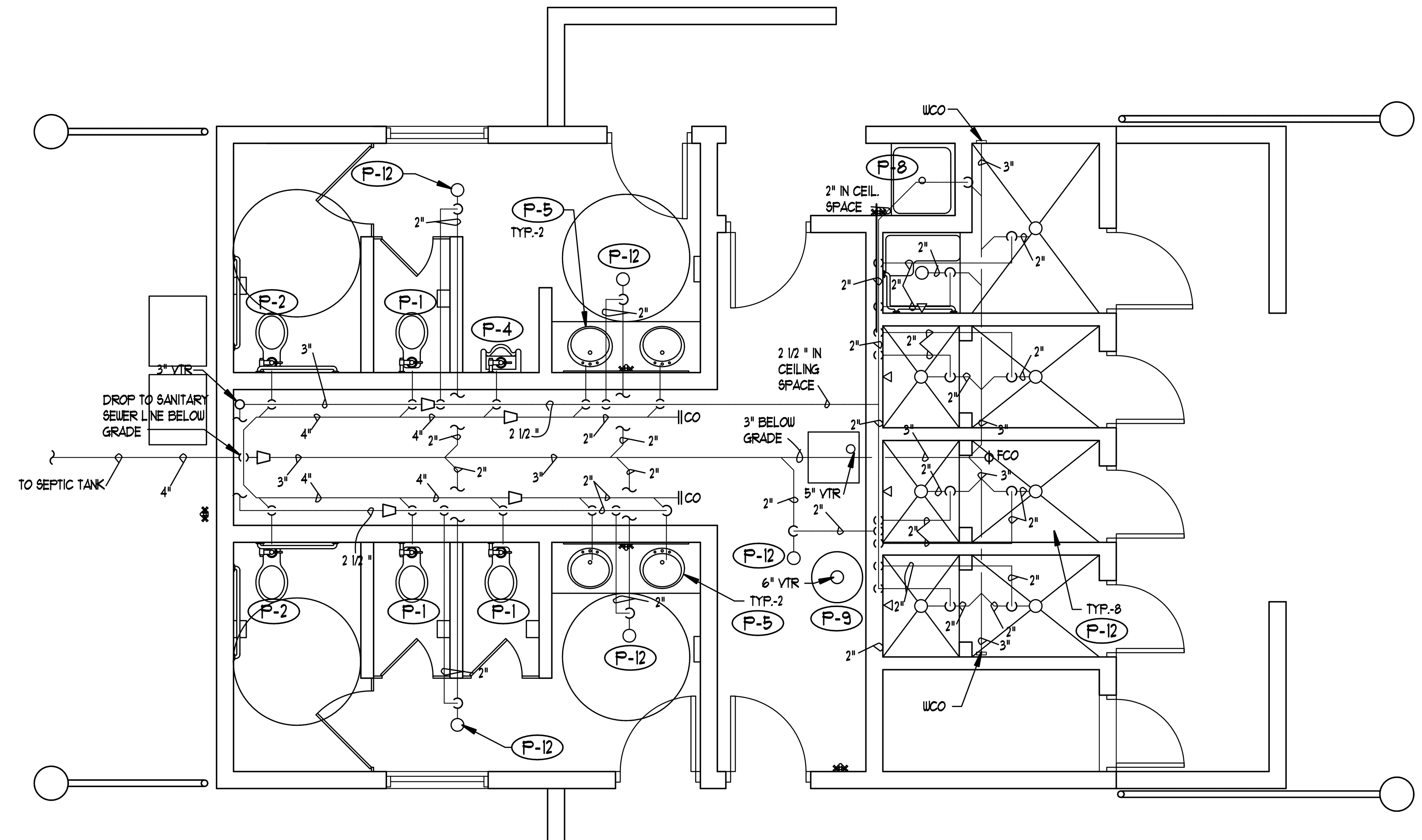
NEW RESTROOM & SHOWER FACILITY
FOR
GOBLIN VALLEY STATE PARK
UTAH STATE DIVISION OF FACILITIES AND CONSTRUCTION MANAGEMENT

Revisions	
Date	Item
12-29-05	

GOBLIN VALLEY RESTROOMS
SR102
2524.GVR

Z:\DRA - Projects\2005 - PROJECTS\2524.GVR - Goblin Valley Restrooms\S-100 - Structural Plans - GVR.dwg, SR102, 1/6/2006 10:34:12 AM





PLUMBING LEGEND

SYMBOL	DESCRIPTION
DCW	DOMESTIC COLD WATER
DHW	DOMESTIC HOT WATER
	SANITARY SEWER
	VENT PIPING
P	PROPANE SUPPLY
	PLUMBING FIXTURE SYMBOL
	FLOOR DRAIN
	CONCENTRIC REDUCER
	PIPING DOWN
	PIPING UP
	PIPING TEE DOWN
	UNION
	BALL VALVE (ISOLATION)
	PRESSURE REDUCING VALVE
	LUBRICATED GAS VALVE
VTR	VENT THRU ROOF
WCO	WALL CLEANOUT
FCO	FLOOR CLEANOUT
CO	CLEANOUT
	WATER HAMMER ARRESTOR

GENERAL NOTES:

ALL SUPPLY PLUMBING SHALL SLOPE TO THE STOP & WASTE VALVE OR WATER HEATER WITH VACUUM BREAKERS AT HIGH POINTS TO ALLOW LINES TO BE COMPLETELY DRAINED TO PREVENT FREEZE DAMAGE.

WATER SUPPLY AND WASTE LINES ARE DRAWN TYPICAL AND CAN DIFFER DUE TO SITE LOCATION.

ALL PIPING EXCEPT FLOOR DRAINS SHALL BE ABOVE GRADE AND EXPOSED IN STORAGE AREA.

CONNECT WATER & SEWER TO EXISTING SERVICES.

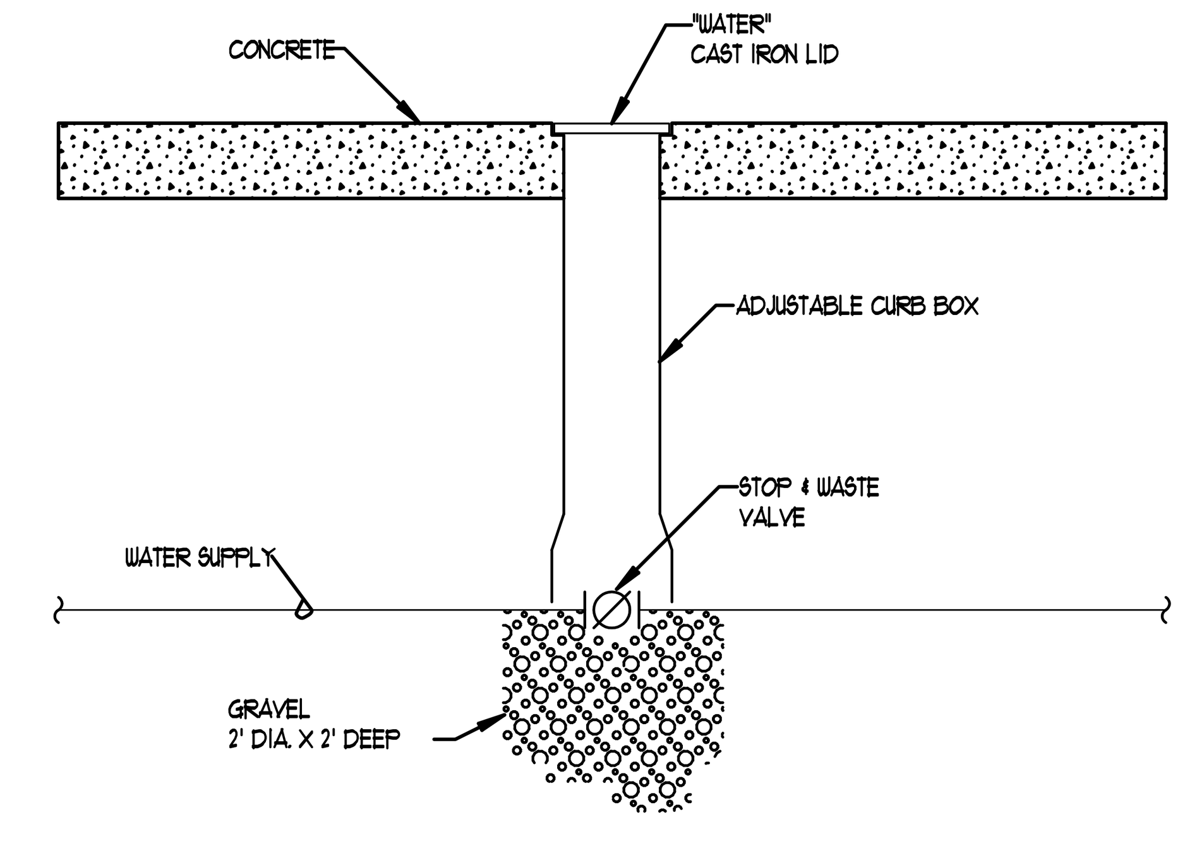
CONSTRUCTION AND MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH REQUIREMENTS AS PRESENTED IN THE INTERNATIONAL PLUMBING CODE AND IN ACCORDANCE WITH LOCAL AUTHORITY REQUIREMENTS.

PLUMBING FIXTURE SCHEDULE

SYMBOL	DESCRIPTIONS	COLD WATER	HOT WATER	WASTE	VENT	MANUFACTURER & MODEL NO.
P-1	WATER CLOSET	1"	--	4"	2"	KOHLER KINGSTON, K-4330, 1.6 GAL. FLUSH WHITE VITREOUS CHINA W/ SUPPORTS, SEAT & SLOAN ROYAL FLUSH VALVE TO MATCH.
P-2	WATER CLOSET ♿	1"	--	4"	2"	KOHLER KINGSTON, K-4330, 1.6 GAL. FLUSH WHITE VITREOUS CHINA W/ SUPPORTS, SEAT & SLOAN ROYAL FLUSH VALVE TO MATCH.
P-3	NOT USED					
P-4	URINAL ♿	3/4 "	--	2"	1 1/2 "	KOHLER BARDON, K-4960-T, WHITE VITREOUS CHINA W/ SUPPORTS AND SLOAN ROYAL FLUSH VALVE TO MATCH
P-5	LAVATORY ♿	1/2 "	1/2 "	1 1/2 "	1 1/2 "	MOLDED SINKS BY OTHERS w/ 4" FAUCET CENTERS FAUCET: KOHLER K-7401KE W/ WRISTBLADE LEVERS.
* P-6	SHOWER ASSY'.	1/2 "	1/2 "	--	--	BRADLEY WCA-SHV WALL SHOWER UNIT, EQUA-FLO MIXING VALVE w/MICRO-TOUCH ELEC. CONTROL AND TRANSFORMER. SET RUN CYCLE FOR 7 MIN. w/10 MIN. WAIT CYCLE.
* P-7	SHOWER ASSY'. ♿	1/2 "	1/2 "	--	--	BRADLEY HN250-SHV w/SEAT ADA SHWR. UNIT, EQUA-FLO MIXING VALVE w/MICRO-TOUCH ELEC. CONTROL AND TRANSFORMER. SET RUN CYCLE FOR 7 MIN. w/10 MIN. WAIT CYCLE.
P-8	JANITOR SINK	3/4 "	3/4 "	3"	2"	KOHLER BANNON K-6718 W/ S.S. RIM GUARD & 3" TRAP W/ BLANK BACK FAUCET: KOHLER K-8907
P-9	WATER HEATER	1 1/2 "	1 1/2 "	--	--	AMERICAN DCG31-100T199-6P, 100 GALLON STORAGE CAPACITY, HIGH RECOVERY, PROPANE FIRED. SET TEMPERATURE AT 105° F MAXIMUM
P-10	WALL HYDRANT	3/4 "	--	--	--	J.R. SMITH 5609QT FREEZEPROOF W/ INTEGRAL VACUUM BREAKER
P-11	STOP & WASTE VALVE	--	--			MUELLER CO. H-10284
P-12	FLOOR DRAIN	--	--	2"	2"	ZURN Z-415 W/ TYPE "B" CHROME PLATED STRAINER
P-13	HOSE BIBB	1/2 "	--	--	--	W/ INTEGRAL VACUUM BREAKER

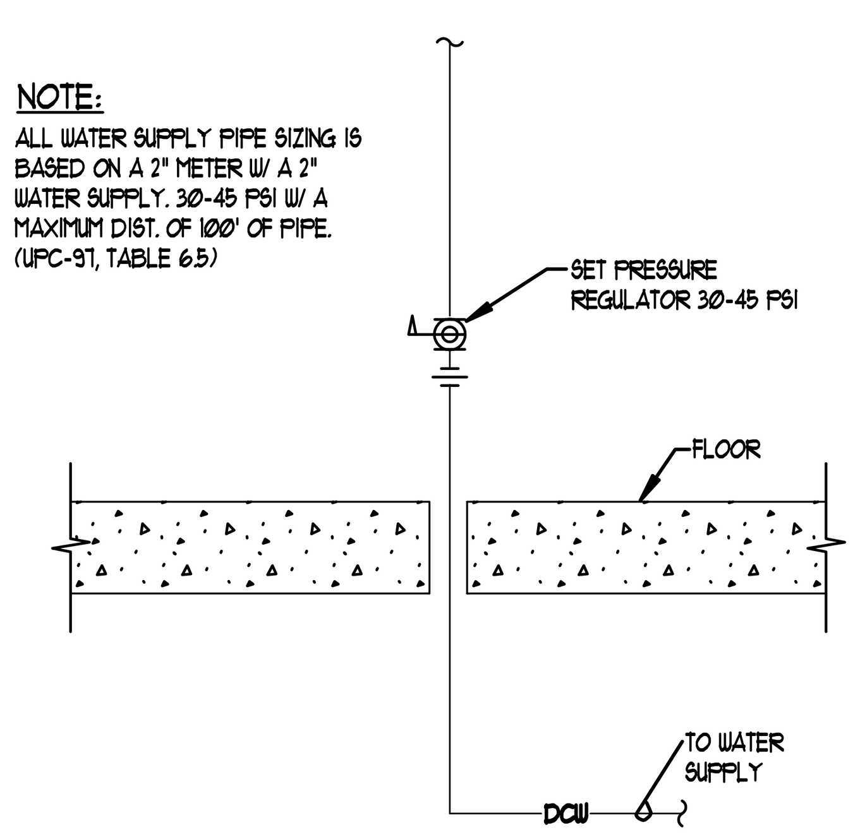
* POSTED SHOWER SIGN: PRESS BUTTON TO START SHOWER.
ADJUST HOT & COLD LEVER TO DESIRED TEMPERATURE.
SHOWER WILL OPERATE FOR (7) MINUTES AND SHUT-OFF.
SHOWER WILL NOT RE-START FOR (10) MINUTES.

SIGN TO BE ADHESIVE BACKED PLASTIC WITH 1/2 " HIGH LETTERS INGRAVED INTO SURFACE

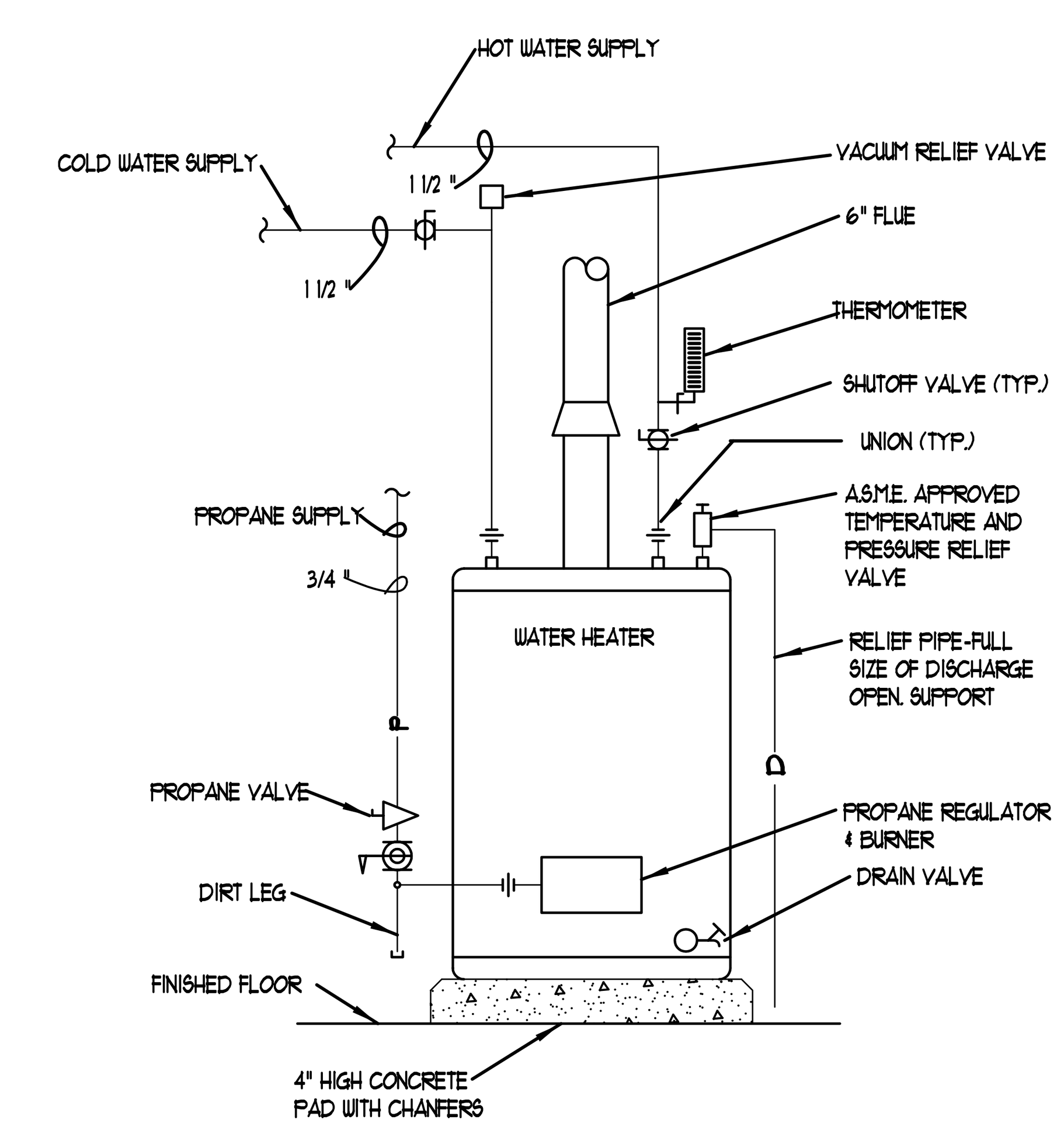


C6 PR101 INSTALLATION DETAIL
SCALE: NOT TO SCALE

NOTE:
ALL WATER SUPPLY PIPE SIZING IS BASED ON A 2" METER W/ A 2" WATER SUPPLY. 30-45 PSI W/ A MAXIMUM DIST. OF 100' OF PIPE. (UPC-97, TABLE 6.5)



D6 PR101 WATER SERVICE ENTRY DETAIL
SCALE: NOT TO SCALE



C7 PR101 PROPANE FIRED WATER HEATER DETAIL
SCALE: NOT TO SCALE

DRA Project # 2524.GVR

dave robinson architects
4525 Wasatch Blvd., Suite 301
Salt Lake City, Utah 84124
801-272-0242

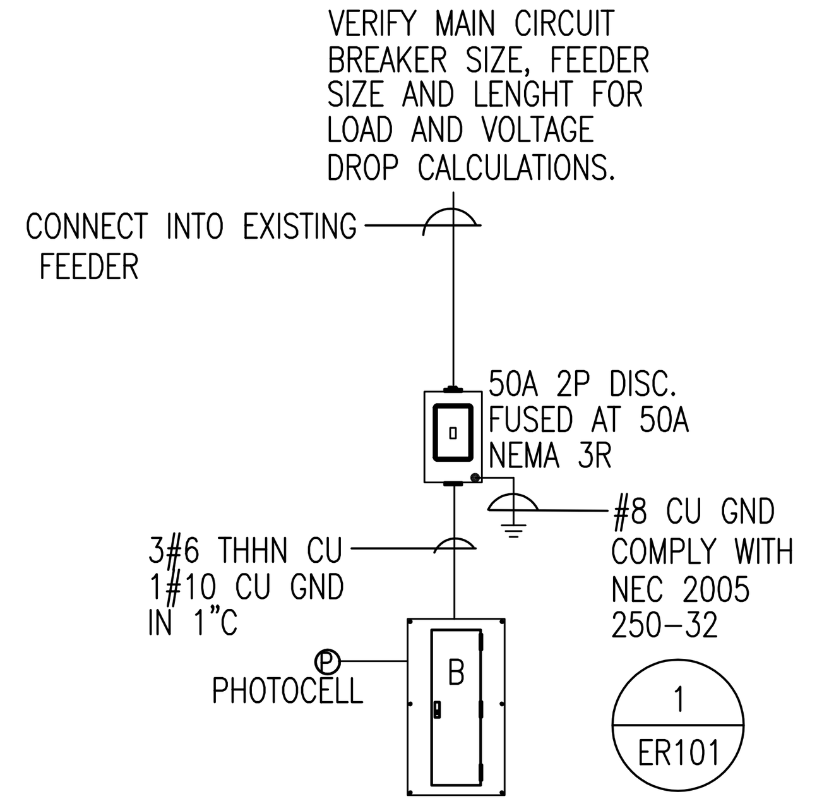
State of Utah
Department of Administrative Services
Division of Facilities - Construction & Management
4110 State Office Building
Salt Lake City, Utah 84114
Phone: (801) 538 - 3018
Fax: (801) 538 - 3267
Internet: http://dfcm.utah.gov

NEW RESTROOM & SHOWER FACILITY
FOR
GOBLIN VALLEY STATE PARK
UTAH STATE DIVISION OF FACILITIES AND CONSTRUCTION MANAGEMENT

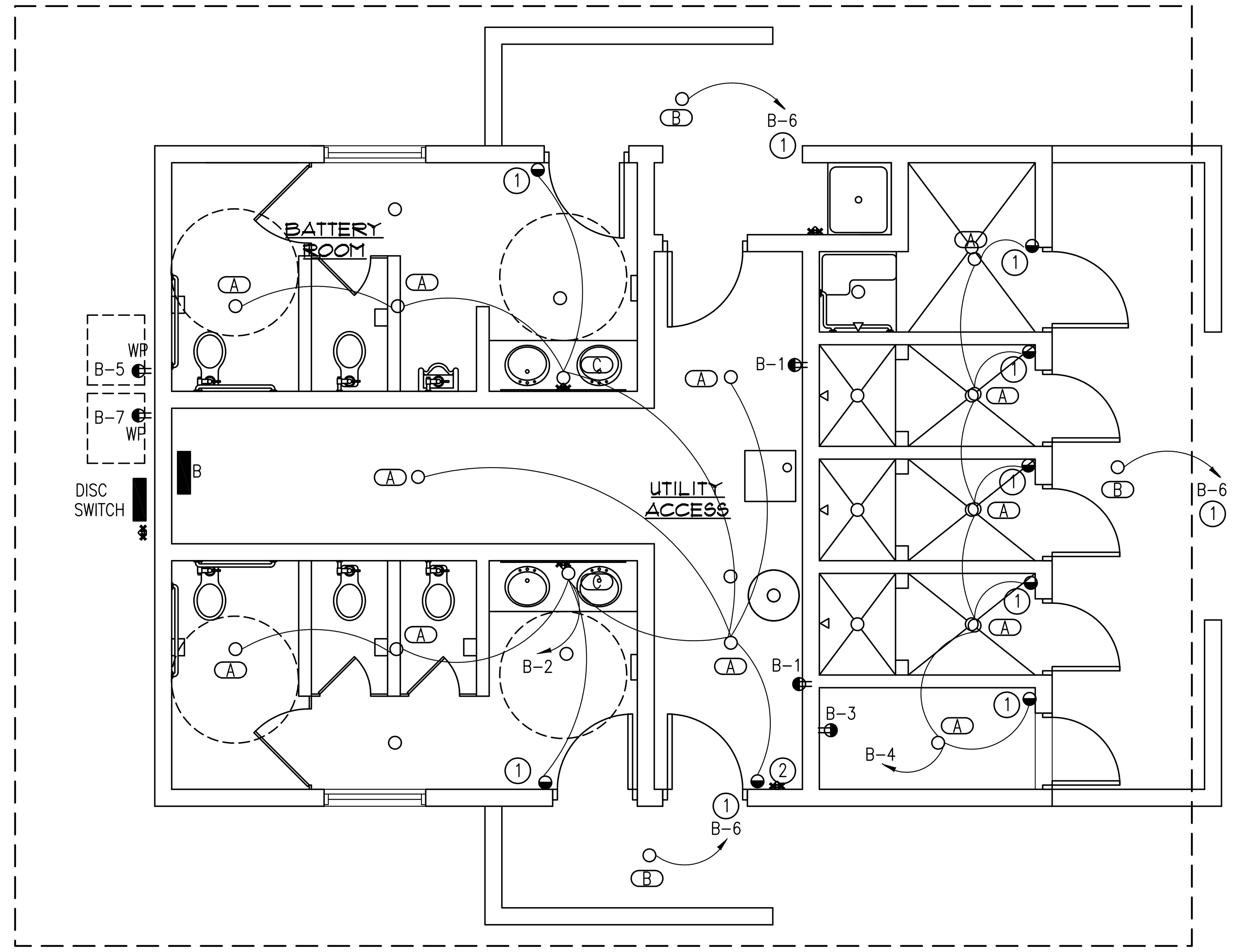
Revisions	
Date	Item

12-29-05

GOBLIN VALLEY RESTROOMS
PR101
2524.GVR



ONE LINE DIAGRAM
NTS



RESTROOM PLAN
SCALE - 1/4" = 1'-0"

ELECTRICAL SYMBOL SCHEDULE

SYMBOL	DESCRIPTION	NOTES	MOUNTING HEIGHT TO BOTTOM OF DEVICE
(A)	LIGHT FIXTURE DESIGNATION (LETTER DESIGNATES TYPE)	16.	
CH-1	DIVISION 15 EQUIPMENT NUMBER DESIGNATION		
$	SINGLE POLE SWITCH	2.	+3'-10" MAX.
$^3	THREE-WAY SWITCH	2.	+3'-10" MAX.
$^T	THERMAL OVERLOAD SWITCH WITH PILOT LIGHT	6.	+3'-10" MAX.
	MOTION SENSOR		
	1 CIRCUIT HOME RUN (1 HOT, 1 NEUTRAL, 1 GROUND)		
	2 CIRCUIT HOME RUN (2 HOT, 1 NEUTRAL, 1 GROUND)		
	3 CIRCUIT HOME RUN (3 HOT, 1 NEUTRAL, 1 GROUND)		+1'-4"
	DUPLEX RECEPTACLE	2. 11.	
WP	WEATHERPROOF RECEPTACLE	P&S WPD-8	+2'-0"
	GROUND FAULT INTERUPTER DUPLEX RECEPTACLE	6. 9. 11.	+1'-4"
	FOURPLEX RECEPTACLE	2. 9. 11.	+1'-4"
	PANEL BOARD	6.	TOP AT +5'-0"
	TELEPHONE/DATA OUTLET COMBINATION	11. 13.	+1'-4"
(J)	JUNCTION BOX	2. 11.	
	MOTOR OUTLET		TO SUIT EQUIP.
F	FUSED DISCONNECT SWITCH	2. 5. 6.	+5'-0"
⊗	EXIT LIGHT		
	EGRESS LIGHT		

1. SEE FIXTURE SCHEDULE FOR TYPE, MOUNTING, AND WATTAGE.
2. "WP" INDICATES WEATHERPROOF DEVICE.
3. REFER TO DRAWINGS FOR DIRECTIONAL ARROWS.
4. SUBSCRIPT KEYS SWITCH TO FIXTURES CONTROLLED.
5. NEMA TYPE 'ND' NON-FUSED UNLESS NOTED 'F' (FUSED). USE 'HD' 480 V.
6. SEE SPECS FOR SIZE AND/OR TYPE.
7. PROVIDE H.O.A. AND S.S. PUSHBUTTONS AS REQUIRED.
8. DOUBLE ARROWS DENOTE A DOUBLE FACE UNIT.
9. COORDINATE WITH SHOP DRAWINGS AND/OR ARCHITECTURAL PLANS FOR MOUNTING HEIGHT.
10. SUBSCRIPT DENOTES NEMA CONFIGURATION.
11. "F" INDICATES FLOOR MOUNTED DEVICE.
12. INNER/OUTER LAMPS SWITCHED SEPERATELY, TWO BALLASTS REQUIRED.
13. 4" x 4" JUNCTION BOX ONLY
14. "C" INDICATES CEILING MOUNTED DEVICE
15. COORDINATE J-BOX SIZE WITH MANUFACTURER.
16. FOR FIXTURE TYPE AND DESCRIPTION SEE FIXTURE SCHEDULE.

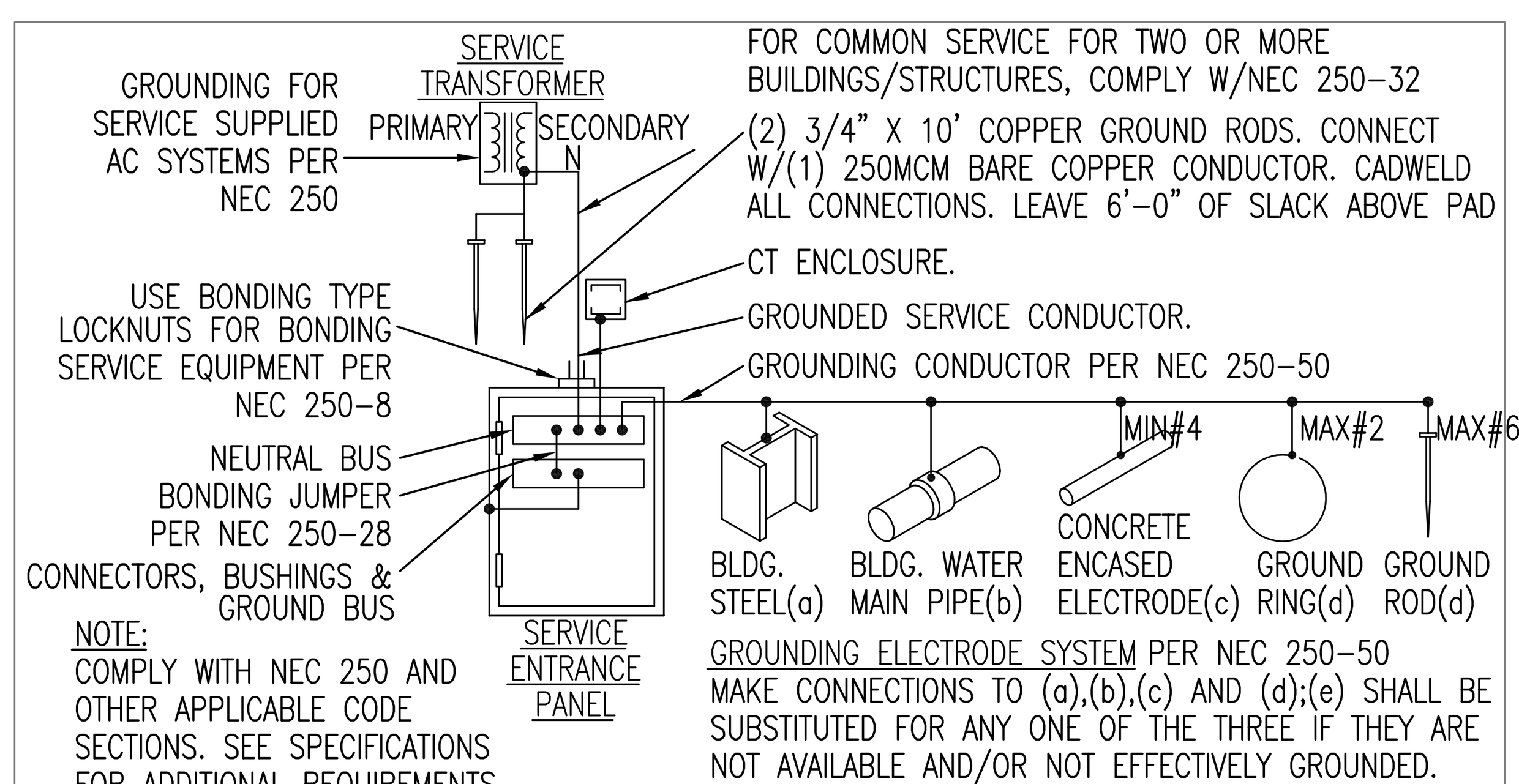
PANELBOARD SCHEDULE

PANEL NAME: B
PANEL TYPE: –
PANEL DIMENSIONS: – "W – "D – "H
MOUNTING: ☒FLUSH ☐SURFACE
VOLTAGE/PHASE/WIRE: 120/240/1/3
MAIN BUS AMPERAGE: –
MAIN CIRCUIT BREAKER AMPERAGE: –
AMPS RMS SYM.: –

LOAD DESCRIPTION	AMPS	POLE	WIRE SIZE	CKT	LEFT A	LEFT B	RIGHT A	RIGHT B	CKT	AMPS	POLE	WIRE SIZE	LOAD DESCRIPTION
RECEPTACLES	20	1	12	1	400		1700		2	25	1	10	LIGHTING
RECEPTACLES	20	1	12	3		200		450	4	20	1	12	LIGHTING
VENDING	20	1	12	5	1000		250		6	20	1	12	EXTERIOR LIGHTING
VENDING	20	1	12	7		1000		–	8	20	1	–	SPARE
				9					10				
				11					12				
				13					14				
				15					16				
				17					18				
				19					20				

COLUMN TOTALS: 1300 | 1300 | 1950 | 1050
PHASE TOTALS: 3250 | 2350
AMPERAGE PER PHASE TOTALS: 27 | 20
5.6 TOTAL CONNECTED KW LOAD

NOTES:



SERVICE ENTRANCE GROUNDING DETAIL
1 / ER101 — NTS

BUILDING STEEL EFFECTIVELY GROUNDED=
STEEL TO BE INTENTIONALLY CONNECTED TO EARTH.

REFERENCE NOTES

1. CIRCUIT THRU PHOTOCELL/MOTION SENSOR.
2. PROVIDE MOTION SENSOR WALL SWITCH WITH ON/OFF SWITCH AND MOTION SENSOR OFF.
3.
4.

LIGHT FIXTURE SCHEDULE

	MANUFACTURER	CATALOG NO.	MOUNTING	LAMPS	DESCRIPTION
A	PATHWAY	–	CEILING	1-42WT	SURFACE MOUNTED
B	PATHWAY	–	CEILING	1-42WT	EXTERIOR SURFACE MOUNTED
C	MAGNAFLOOD		WALL	2-9W CFL	WALL

NOTE: * VERIFY PENDANT CORD LENGTH

GENERAL NOTES

1. VERIFY ALL EQUIPMENT DIMENSIONS AND LOCATIONS BEFORE BEGINNING ROUGH-IN. CONSULT ALL APPLICABLE CONTRACT DRAWINGS AND SHOP DRAWINGS TO INSURE NEC CODE CLEARANCES REQUIRED AROUND ALL ELECTRICAL EQUIPMENT.
2. CONTRACTOR SHALL VERIFY ALL ELECTRICAL LOADS (VOLTAGE, PHASE, CONNECTION REQUIREMENTS, ETC.) OF EQUIPMENT FURNISHED UNDER OTHER DIVISIONS WITH APPROVED SHOP DRAWINGS BEFORE BEGINNING ROUGH-IN.
3. THE ELECTRICAL CONTRACTOR SHALL NOTIFY AND COOPERATE WITH THE MECHANICAL CONTRACTOR SO THAT NO PIPING, DUCTS, OR EQUIPMENT FOREIGN TO THE OPERATION OF THE ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE INSTALLED IN, ENTER OR PASS THRU ELECTRICAL ROOM OR SPACES; OR ABOVE OR BELOW ELECTRICAL EQUIPMENT IN OTHER AREAS.
4. ALL PENETRATIONS OF FIRE RATED FLOORS, WALLS, AND CEILINGS SHALL BE SEALED WITH APPROVED MATERIAL TO MAINTAIN FIRE RATING OF SURFACE PENETRATED.
5. UNLESS OTHERWISE INDICATED, ALL CONDUIT, J-BOXES, SWITCHES, DEVICES, ETC. TO BE SURFACE MOUNTED ON EXPOSED CONCRETE WALLS OR CEILINGS.
6. COORDINATE WITH ARCHITECT FOR DEMOLITION/NEW CONSTRUCTION PHASING REQUIREMENTS.
7. RUN AN UNSWITCHED CONDUCTOR TO EACH EXIT LIGHT OR FLUORESCENT FIXTURE WITH AN EMERGENCY BATTERY PACK. SEE DRAWINGS FOR FIXTURE LOCATIONS. FIXTURES CONTROLLED BY BI-LEVEL SWITCHING REQUIRE (2) BALLASTS.
8. SIZE GROUND AND CONDUITS PER NEC TABLE 250.122. GREEN GROUND WIRES SHALL BE RUN IN ALL CONDUITS.
9. COMPLY WITH IBC, NEC, NFPA, IFC AND ADA.

dave robinson architects
4525 Wasatch Blvd., Suite 301
Salt Lake City, Utah 84124
801-272-0242

State of Utah
Department of Administrative Services
Division of Facilities - Construction & Management
4110 State Office Building
Salt Lake City, Utah 84114
Phone: (801) 538 - 3018
Fax: (801) 538 - 3267
Internet: http://dfcm.utah.gov

NEW RESTROOM & SHOWER FACILITY
FOR
GOBLIN VALLEY STATE PARK
UTAH STATE DIVISION OF FACILITIES AND CONSTRUCTION MANAGEMENT

Revisions	
Date	Item

12-29-05